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**BULLETIN OF
WAKE FOREST UNIVERSITY
CATALOG ISSUE**

WINSTON-SALEM

NORTH CAROLINA



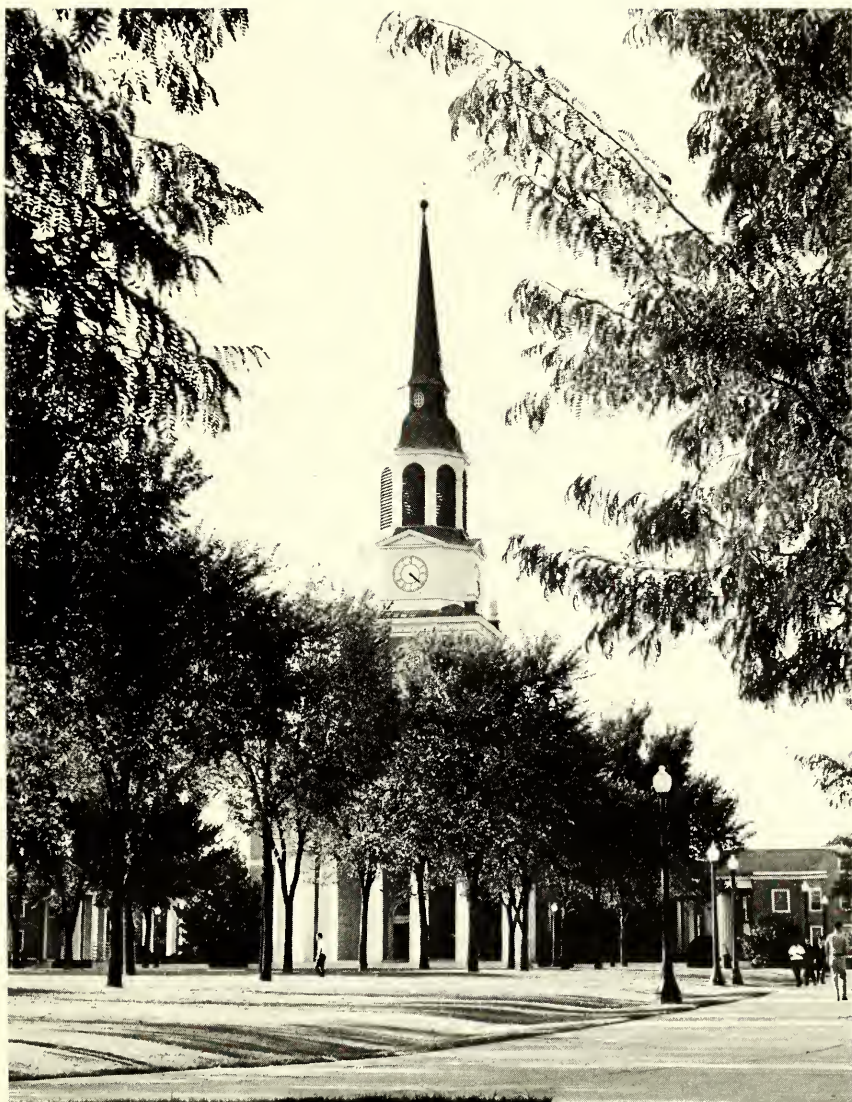
**JANUARY 1971
FOR STUDENTS ENTERING IN
ACADEMIC YEAR 1971-72**

CORRESPONDENCE

Inquiries to the University should be addressed as indicated below:

Admissions	Director of Admissions
Alumni Affairs	Director of Alumni Affairs
Athletics	Director of Athletics
Business Administration	Dean of Charles H. Babcock School of Business Administration
Catalogs	Director of Admissions
Financial Matters	Vice President for Business and Finance
General Policy of the University	President
Gifts and Bequests	President
Graduate Studies	Dean of the Graduate School
Housing —	
Men	Director of Residences
Women	Dean of Women
Law	Dean of School of Law
Medicine	Director of Admissions Bowman Gray School of Medicine, Winston-Salem, N. C. 27103
Placement	Director of Placement
Public Relations and Development Program	President
Scholarships	Committee on Scholarships
Student Affairs	Dean of the College
Summer Session	Dean of Summer Session
Transcripts	Registrar

All addresses, except Medicine, are:
Wake Forest University, Reynolda Station
Winston-Salem, N. C. 27109



Wait Chapel and Plaza



Air View o



e Campus



The Charles H. Babcock School of Business

NEW SERIES

JANUARY 1971

VOL. LXVI, No. 1

BULLETIN OF WAKE FOREST UNIVERSITY



GENERAL CATALOG ISSUE ONE HUNDRED THIRTY-SIXTH YEAR ANNOUNCEMENTS FOR 1971-1972

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1971

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UNIVERSITY CALENDAR

Fall Term 1971

Sept.	2	Thursday	9:00 Dormitories open for students
Sept.	2	Thursday	11:00 Cafeteria open
Sept.	2	Thursday	Orientation for freshmen and transfer students
Sept.	6	Monday	
Sept.	7	Tuesday	Registration of new students 8:00-5:00
Sept.	8	Wednesday	Classes begin
Oct.	8	Friday	I grades of last term become F
Oct.	8	Friday	Last day for dropping a course without penalty
Oct.	26	Tuesday	Mid-term reports due in Registrar's office
Nov.	6	Saturday	Homecoming
Nov.	25	Thursday	Thanksgiving holiday
Nov.	26	Friday	Classes resumed
Dec.	10	Friday	Reading Day
Dec.	11	Saturday	Examinations begin
Dec.	18	Saturday	Examinations end
Dec.	19	Sunday	Christmas Recess
Jan.	3	Monday	

Winter Term 1972

Jan.	4	Tuesday	Classes begin
Jan.	29	Saturday	Classes end
Jan.	30	Sunday	Winter Recess
Feb.	1	Tuesday	

Spring Term 1972

Feb.	2	Wednesday	Registration 8:00-5:00
Feb.	3	Thursday	Classes begin
Feb.	3	Thursday	Founders' Day Convocation
March	3	Friday	I grades of last term become F
March	6	Monday	Last day for dropping a course without penalty
March	24	Friday	Mid-term reports due in Registrar's Office
April	2	Sunday	*Spring Recess
April	9	Sunday	
April	10	Monday	Classes resumed
April	13	Thursday	Senior Testing Day
April	17	Monday	Last day for payment of reservation deposit for next school year
April	24	Monday	Sophomore conferences with major advisers
May	6	Saturday	
May	6	Saturday	Registration for fall semester 1972 8:00-5:00
May	16	Tuesday	Reading Day
May	17	Wednesday	Examinations begin
May	24	Wednesday	Examinations end
May	26	Friday	Last Senior grades due in Registrar's office
May	28	Sunday	Baccalaureate Sermon
May	29	Monday	Graduation

* Spring recess for students registered in Education 251 will coincide with the Easter recess of the Public Schools.

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INTRODUCING THE UNIVERSITY

Location

Wake Forest University is located at Winston-Salem, North Carolina, just off North Carolina Highway 67 (which follows Reynolda Road at this point), on the western outskirts of the city. The University consists of the following divisions: Wake Forest College, the School of Law, the Charles H. Babcock School of Business Administration, the Bowman Gray School of Medicine, and the Graduate School.

Recognition

Wake Forest University is a member of the Southern Association of Colleges and Schools, the Southern University Conference, and the Association of American Colleges. The University has chapters of the principal national social fraternities, professional fraternities and honor societies, including Phi Beta Kappa.

The School of Law is a member of the Association of American Law Schools, and is on the approved list of the Council on Legal Education of the American Bar Association.

The Bowman Gray School of Medicine, a four-year medical college, is a member of the Association of American Medical Colleges, and is on the approved list of the Council on Medical Education of the American Medical Association.

The Charles H. Babcock School of Business Administration is a member of the American Association of Collegiate Schools of Business.

The Teacher Education Program is accredited by the National Council for Accreditation of Teacher Education.

Although Wake Forest was primarily a college for men for more than 100 years, women have been regularly admitted to all classes and to the professional schools since 1942.

THE UNIVERSITY AND ITS EQUIPMENT

HISTORICAL SKETCH

Historical Background. The history of the founding of Wake Forest College is inseparable from the history of the formation of the Baptist State Convention. One of the two main purposes which led to the organization of the convention in 1830 was to establish an educational institution that would give training under Christian influences and provide educated ministers and laymen.

Immediately after the formation of the Baptist State Convention, Dr. Samuel Wait, serving as agent for the Convention, began an intensive four-year educational campaign among the Baptists of the State. Two years later, in 1832, the Convention purchased from Dr. Calvin Jones a 600-acre farm sixteen miles north of Raleigh, to be used as a site for the proposed school.

Wake Forest Institute. Under the authorization of a charter granted by the State Legislature in December 1833, the school was opened as Wake Forest Institute on February 3, 1834, with Dr. Wait as principal. Although the primary purpose was to give collegiate instruction in the arts and sciences, for five years the Wake Forest Institute operated as a manual labor school, attracting liberal patronage from the large planters of the State, who wished their sons to receive practical training in agriculture, along with education in the liberal arts. In 1836 the enrollment had increased from the original 16 to 141.

The College. The manual labor feature was abandoned at the close of the year 1838, and the institution was rechartered in December 1838 as Wake Forest College.

With teachers who were graduates of Columbia College, Brown University, and Dartmouth College, and with a liberal arts curriculum that was standard for the time, Wake Forest College conferred the degree of Bachelor of Arts upon four young men in June 1839.

From 1839 to 1894 the College operated exclusively as a college of liberal arts; the School of Law was established in June 1894, the School of Medicine in May 1902, the School of Business Administration in 1948, the Division of Evening Classes in 1957,* and the Division of Graduate Studies (now the Graduate School) in 1961. In 1942 the College became co-educational.

* This Division was discontinued June 30, 1964.

The College has given instruction to many thousands of students and has sent them into varied fields of service. Among these have been a large number of ministers, missionaries, lawyers, physicians, educators, writers, scientists, businessmen, farmers, and influential leaders in governmental affairs. From the beginning the College has made marked contributions to Christianity, to culture, and to a higher type of citizenship generally, in accordance with the original purpose of the founders of the institution.

In 1946 the Trustees of the College and the Baptist State Convention accepted an offer made by the Z. Smith Reynolds Foundation to give the College \$350,000 annually in perpetuity for operation of the school on condition that it be moved to Winston-Salem and that other friends of the College provide a campus site and buildings. This decision was made three years after the College had undertaken an Enlargement Program to provide much needed buildings and other physical facilities on the old campus.

The late Charles H. Babcock and his wife, the late Mary Reynolds Babcock, contributed a part of the beautiful Reynolda Estate for the new campus. Groundbreaking ceremonies were held on October 15, 1951, with the President of the United States delivering the principal address. The following spring actual construction began. Accompanying the construction was intensive fund-raising. In 1955 the Z. Smith Reynolds Foundation increased its annual payments to the College to \$500,000. The actual move from Wake Forest to Winston-Salem took place in May and June of 1956. The Bowman Gray School of Medicine of the College had been moved to Winston-Salem in 1941 when it received the resources of the Bowman Gray Foundation.

Summer School opened on the new campus on June 18, 1956, the fall term on September 11 and formal dedication exercises were held on October 18. The old campus and buildings at Wake Forest were sold to the Southern Baptist Convention for use of the Southeastern Baptist Theological Seminary, which now occupies the campus.

The University

By reason of the growth and development of the College, and because of the expansion of its program not only in its

professional and graduate schools but also in the College of Arts and Sciences, the name of the College was changed to Wake Forest University, effective June 12, 1967.

Administration and Instruction. The University is governed by a Board of Trustees which is elected by the North Carolina Baptist Convention. The Board has thirty-six members who serve four-year terms, with nine being chosen each year at the annual convention.

During its history of 136 years the College has been headed by a total of eleven presidents, the administrations of four of these (Dr. Washington Manly Wingate, Dr. Charles E. Taylor, Dr. William Louis Poteat and Dr. Thurman D. Kitchin) covering a total of 88 years. The complete list of presidents,* with the dates of their administrations, follows:

Samuel Wait, D.D.	1834-45
William Hooper, D.D., LL.D.	1845-49
John Brown White, M.A.	1849-54
Washington Manly Wingate, D.D.	1854-79
Thomas Henderson Pritchard, D.D.	1879-82
Charles Elisha Taylor, D.D., LL.D.	1884-1905
William Louis Poteat, LL.D., Litt.D.	1905-27
Francis Pendleton Gaines, Ph.D., Litt.D., LL.D.	1927-30
Thurman D. Kitchin, M.D., LL.D., F.A.C.P.	1930-50
Harold Wayland Tribble, M.A., Th.M., Th.D., Ph.D., D.D., LL.D.	1950-67
James Ralph Scales, M.A., Ph.D.	1967-

The growth and progress of the College are due in no small degree to the leadership of its presidents† and to the faculty of instruction, many of whom have rendered distinguished service for 30 years or more. These include: Dr. William Bailey Royall, professor of Greek, 62 years; Dr. William Louis Poteat, Biology, 55 years; Dr. Benjamin F. Sledd, English, 50 years; Prof. Edgar W. Timberlake, Law, 50 years; Dr. J. Hendren Gorrell, Modern Languages, 45 years; Dr. Hubert McNeill Poteat, Latin, 44 years; Dr. Needham Y. Gulley, Law, 44 years; Dr. George W. Paschal, Classical Languages, 43 years; Dr. W. R. Cullom, Religion, 42 years; Dr. Ora C. Bradbury, Biology, 36

* During the years 1882-84, William Bailey Royall, B.A., M.A., D.D. (Professor of Greek), served as chairman of the Faculty.

† Those interested in more specific information are referred to the three-volume *History of Wake Forest College* by Dr. George W. Paschal.

years. Dr. D. B. Bryan served as Professor of Education for 36 years and Dean of the College for 34 years. Mr. Elliott B. Earnshaw served as Bursar for 45 years. Of the present faculty, eighteen have served more than thirty years, including the following who became emeriti after serving thirty-five years or more: Prof. Hubert A. Jones taught Mathematics for 51 years; Dr. Henry Broadus Jones, English, 35 years; Dr. J. Allen Easley, Religion, 35 years; Prof. Kenneth T. Raynor, Mathematics, 35 years; Dr. A. C. Reid, Philosophy, 46 years; Dr. Charles S. Black, Chemistry, 41 years; Prof. Forrest W. Clonts, History, 44 years; Dr. Coy C. Carpenter, Medicine, 41 years; and Dr. Harold D. Parcell, French, 35 years. Mrs. Ethel Taylor Crittenden retired in 1946 after 31 years as Librarian. In a word, the University has enlisted and retained throughout their teaching careers men who have devoted themselves to the University and to its ideals of culture and Christian leadership.

PURPOSES AND OBJECTIVES

As an institution founded by the Baptist State Convention of North Carolina, Wake Forest University seeks to shape its goals, policies, and practices by Christian ideals. It seeks to help its students become mature, well-informed and responsible persons. It seeks to introduce its students to the cultural heritage of our times, through a broad study of the humanities, the natural and social sciences and mathematics, and through a concentration in at least one academic discipline. It seeks to develop in its students the ability to think honestly and clearly, to use the English language correctly, and to use at least one foreign language effectively. It seeks to assist its students in building a system of values which takes full account of the things of the spirit as well as things material that they may become constructive and useful members of society. Finally, it seeks to aid its students in achieving for themselves a vital and relevant faith.

These purposes underlie the total academic program of the University. Through them the University seeks to prepare its students for careers in teaching, the ministry, law, medicine, business, research, and other professions.

RELIGIOUS PROGRAM

Wake Forest was founded as a result of a religious concern for education and missions. That same concern means in part that the University undertakes to help individual students become authentic, whole persons.

The religious program seeks to clarify the Christian style of life and indicate its cohesion with academic excellence. There are twice-weekly worship services, student meetings, and lectures by faculty and visiting speakers. All such programs, including the weekly worship services, are voluntary. These programs are planned by the faculty convocation committee and coordinated by the Chaplain's office.

The Chaplain coordinates denominational and interdenominational programs including discussions and projects designed to provide specific opportunities for students to express their religious concerns. The year's activities begin with a pre-school retreat for all students under the guidance of campus ministers who represent the major denominations. Whereas some of them have responsibilities at other colleges in Winston-Salem, all of them undertake a personal ministry to Wake Forest students and encourage them to take advantage of the religious opportunities provided by churches in Winston-Salem.

The Wake Forest Baptist Church is at worship each Sunday in Wait Chapel. Its constituency embraces students, faculty, administration, and people from the city of Winston-Salem. This relationship between the University and the campus church has existed for many years. Although planted in the soil of Baptist tradition and associated with larger Baptist bodies, the Wake Forest Church has embraced and contributed to the growing ecumenism of the University. Its membership and mission are open to all who may seek its ministry and may wish to use it as an instrument for their mission to the world.

ENDOWMENT, TRUST FUNDS AND FOUNDATIONS

In 1865 the endowment fund of Wake Forest University was \$11,700, the remnant from the wreck of war. Under the terms of the will of Mr. Jabez A. Bostwick, the endowment was increased, in 1923, by stock valued at about \$1,500,000.

On August 3, 1939, the resources of the Bowman Gray Foundation were awarded to Wake Forest College, to be used exclusively by the School of Medicine.

Under the terms of the will of Colonel George Foster Hankins of Lexington, North Carolina, who died in 1954, the George Foster Hankins Foundation was established, the income to be used for scholarships. The assets of the Foundation on June 30, 1970, were approximately \$1,500,000.

The Ford Foundation in 1956 made two gifts to the endowment of the College, the sum of \$680,500 for the School of Arts and Sciences and \$1,600,000 for the Bowman Gray School of Medicine.

The Mary Reynolds Babcock Foundation made gifts, in 1958 and 1962, of the Reynolda Gardens and an endowment with the total value of approximately \$1,500,000. In 1965 the College received an additional gift of land on which a plant of the Western Electric Company is located. This gift, valued at \$3,500,000, is to be used for the support of the Library and the Chair of Botany. In December, 1969, an endowment in the amount of \$2,000,000 was received from the Foundation for the use and benefit of the Charles H. Babcock School of Business Administration.

In 1965, 1966, and 1967 a gift totaling \$1,000,000, the income from which is to be used to support the Library, was received from Mrs. Nancy Reynolds.

From the estate of the late Guy T. Carswell, who died in 1966, the University received the Guy T. and Clara H. Carswell Scholarship Fund. Investments in this fund were approximately \$1,600,000 at June 30, 1970.

On June 30, 1970 all endowment funds controlled by the University had a book value of \$26,008,000 and market value of \$36,100,000.

In addition to the endowment funds controlled by the Trustees, various trust funds are held by banks for the benefit of the University. Among these are the James A. Gray Trust Fund, the Mary K. Fassett Trust Fund, and the Lucy Teague Fassett Memorial Trust Fund.

The Trustees of The Z. Smith Reynolds Foundation, Inc. and The Trustees of Wake Forest College entered into a contract on November 16, 1946, whereby the Foundation made available to the College income of the Foundation up to \$350,000 per year in perpetuity, this sum being increased to \$500,000 in 1955. In 1965, the Foundation announced a matching grant of \$3,000,000 for a period of four years. Upon reaching this goal, the Foundation increased the annual grant to \$620,000 in 1968, and also announced an additional \$150,000 per year for five years.

BUILDINGS AND GROUNDS

Wake Forest University is situated on approximately 320 acres of land, and the physical plant consists of 30 buildings, including 12 apartment buildings for faculty and married students. The property was given to the University by the Mary Reynolds Babcock Foundation and Mr. Charles H. Babcock, and construction of the new campus was begun in 1952. It was occupied for the first time during the 1956 summer session. The buildings are of modified Georgian architecture and constructed of Old Virginia brick trimmed in granite and limestone. Situated on beautifully landscaped hills, the campus is one of the most attractive in the South.

The Reynolda Gardens annex, consisting of 148 acres and including Reynolda Woods, Reynolda Village, and Reynolda Gardens, is adjacent to the campus on the south. This tract includes a formal garden, greenhouses, parking areas, a lake, and a wooded area with trails. The formal garden features one of the finest collections of Japanese cherry trees in the United States. This area of natural beauty was a gift to the College from the Mary Reynolds Babcock Foundation through transfers made in 1958, 1961, and 1963.

ACADEMIC BUILDINGS

Wait Chapel. Named in memory of the first President of Wake Forest College, Wait Chapel faces toward the south overlooking the plaza, with Reynolda Hall in the foreground and men's dormitories at right and left.

Wingate Hall. This building is attached to Wait Chapel and is used by the Departments of Music and Religion and Wake

Forest Baptist Church. Wingate Hall is named in honor of Washington Manly Wingate, President of Wake Forest College, 1854-1879.

Reynolda Hall. This building serves both as an administration building and a student center. Food services are centralized in Reynolda Hall and consist of a cafeteria, snack shop, banquet room, the Magnolia Room, and other smaller dining rooms. The University Computer Center is located in the basement.

The Z. Smith Reynolds Library. Situated at the center of the academic campus, this building contains space for eight tiers of book stacks, with a capacity of about one million volumes. Surrounding the book stacks are four floors of rooms for reading, reference, and various other uses of a modern library. The University Theatre is located on the top level of the Library.

Salem Hall. Directly west of the Library, this three-story building contains laboratories, classrooms, and offices for the Departments of Chemistry and Physics.

Winston Hall. Located just west of Salem Hall, this building was occupied in September 1961. It provides instructional and office space for the Departments of Biology and Psychology.

The W. N. Reynolds Gymnasium. Located just east of Reynolda Hall, this building is equipped with classrooms for instruction in physical education, courts for basketball and other indoor sports, a swimming pool, and offices for the Department of Physical Education and the Department of Athletics. Surrounding the Gymnasium are sports fields and courts for tennis, track, soccer, football, and field hockey. Memorial Coliseum is used for intercollegiate basketball games. The Department of Military Science is also housed in this building.

Law Building. This is a four-story structure which contains classrooms, offices, a moot court, an assembly room, a library, a student lounge, and other specific use rooms.

Harold W. Tribble Hall. This building accommodates the social sciences and the humanities and contains instructional and office space, a small projection theatre, the philosophy library, a curriculum materials center, the Honors seminar room, and a main lecture room which seats 200.

Charles H. Babcock Business Building. Occupied in September 1969, this building contains offices and classrooms for the Charles H. Babcock School of Business Administration and the Department of Mathematics. This building contains a variety of instructional spaces, including amphitheatres, seminar rooms, a reading room, and a faculty seminar lounge. All classrooms are equipped for full audio-visual use.

p.

STUDENT RESIDENCES

Housing for Men. Bordering the plaza are four quadrangles of houses for men with accommodations for 1500 students. The houses are named in honor of Charles Elisha Taylor, William Louis Poteat, and Thurman Delna Kitchin, former Presidents of Wake Forest College, and Egbert Lawrence Davis, a benefactor of the College. Connecting Poteat and Taylor Houses with the Chapel are Efird Hall and Huffman Hall, named in honor of J. B. Efird of Charlotte, and Frank Huffman of Morganton, respectively. Facing the plaza are a number of commercial shops, including a branch post office and the College Book Store.

Dormitories for Women. Three dormitories for women are located on the south end of the campus facing Reynolda Hall. These are named in honor of Jabez A. Bostwick, one of the early benefactors of the College, Miss Lois Johnson, first Dean of Women, and Mary Reynolds Babcock. Mrs. Babcock and her husband, the late Charles H. Babcock, were among the chief benefactors of the College. A new dormitory which is designed to accommodate men, women, and couples is scheduled to be completed for fall 1971 occupancy.

The Power Plant. This building is located on a lower level northwest of the athletic fields and is connected by tunnels with all buildings on the campus. Modern in design, it furnishes heat and hot water for all buildings and is the basis for the air conditioning system installed in several facilities.

The Maintenance Building. Located next to the Power Plant, this houses offices and equipment for buildings, grounds, and maintenance.

LIBRARIES

In its libraries the University holds 402,143 printed volumes, distributed as follows: the Z. Smith Reynolds Library (general), 303,298; the Library of the School of Law, 40,000; and the libraries at the Bowman Gray School of Medicine (the Main Library and the Allied Health Library), 58,845. Included are 42,528 volumes of United States Government publications, the Z. Smith Reynolds Library being an official, although selective, depository. A rapidly growing microtext collection is maintained; there are 11,752 reels of microfilm containing files of local, national, and foreign newspapers; and 118,152 pieces of microprint, which include such substantial items as the British Parliamentary Papers and the Human Relations Area File.

Since 1970 the library system of the University has included an additional unit in the Charles H. Babcock Graduate School of Management. This library, now in its beginning stages, will be developed to provide facilities for a new graduate program in business disciplines.

The Z. Smith Reynolds Library provides excellent support for a liberal arts curriculum and a limited, although expanding, graduate program. Moderate emphasis has been placed on North Carolina and Southeastern materials. The Ethel Taylor Crittenden Collection in Baptist History contains more than 7,000 items which include files of Baptist serials and individual church records.

After sustained effort on the part of a special staff group over a period of more than four years, the reclassification of the collection in the Z. Smith Reynolds Library was completed in the winter of 1969-70. Therefore, with the exception of books in a few special areas, the volumes in this library are now classified according to the Library of Congress schedules, a situation which has produced not only a distinctly more usable and convenient arrangement of the books but also an acceleration in book processing. An open-stack policy enables users to consult books directly at the shelves, and copying facilities are available at nominal cost. Current issues and bound volumes of periodicals in chemistry and physics are shelved in Salem Hall for convenience in laboratory research.

The Z. Smith Reynolds Library receives the income from an endowment fund of about \$4,500,000, the result of two major gifts: a donation of assets worth \$3,500,000 by the Mary Reynolds Babcock Foundation; and a gift of \$1,000,000 made in 1967 by Mrs. Nancy Reynolds. This income is applied principally to the purchase of books necessary for graduate studies, although portions have been used for much needed changes and additions in the Library building.

Other gifts have enriched the University library collections. Mr. Tracy McGregor provided a collection of valuable titles on the colonial and early national periods of American history. To acquire the important editions of Edmund Spenser and related background material, a contribution was made by Dr. Charles G. Smith in honor of his wife, Cornelia Marschall Smith. Dr. Herman Harrell Horne established a fund for the purchase of titles of a general nature.

Dr. Charles Lee Smith of Raleigh bequeathed to the University his personal library of about 7,000 volumes, rich in first editions, while a bequest from his brother, Oscar T. Smith of Baltimore, affords additional purchases of similar volumes.

The Paschal Collection was established Christmas 1950 by Dr. George W. Paschal, Jr., Raleigh surgeon, in recognition of the interest in the Library manifested by his father, George Washington Paschal, and also in memory of his father's twin brother, Robert Lee Paschal. The Collection is regularly enlarged and, although heterogeneous in nature, primarily contains material relating to the humanities. The aim of the founder of the Collection is to add to the working efficiency of the Library. While this Collection is principally supported by the donor, it has also received and welcomes contributions from interested friends. A special bookplate is used for items acquired for the Collection.

In 1970 the acquisition of an important Mark Twain collection was made possible through the generosity of Mrs. Nancy Reynolds. The collection contains many variant editions of his works, with critical material and memorabilia. From the estate of Judge R. Hunt Parker the Library received a well-selected collection of more than 3,000 volumes.

The Library of the School of Law contains 40,000 volumes, including the reports, digests, and statutes required by the American Association of Law Schools, together with the leading periodicals, encyclopedias, and textbooks.

Library facilities at the Bowman Gray School of Medicine consist of the Main Library and the Allied Health Library. Together they contain 58,845 volumes, furnishing the periodicals, texts, and monographs essential to instruction and research in medical theory and practice.

The Spilman Philosophy Seminar houses carefully selected books for the use of advanced students in philosophy. Although not supported by library funds, but by an endowment given by Dr. B. W. Spilman and by the A. C. Reid Philosophy Fund, it forms a valuable part of the book resources of the University.

The Library of the Military Science Department, located in the Gymnasium, has available for student use over 2,000 books and periodicals. In addition to major military conflicts involving the United States, the material covers such subjects as communism, the "Cold War," counterinsurgency, anti-guerrilla warfare, foreign policy, nuclear warfare, and space activities.

ART MUSEUM

The Museum of Art is made up mainly of the T. J. Simmons Collection, presented to the College by the late Dr. Thomas Jackson Simmons of Gainesville, Ga., and formally opened to the public on June 2, 1941. Including some additions, there are about sixty paintings, thirty-five etchings and lithographs, five pieces of sculpture, and several other art objects in the collection.

The Museum was enriched in 1957 by three paintings from the Hammer Galleries given by Mr. Arnold Kirkeby, and in 1960 by two paintings given by Mr. Clark Hartwell and three by Mrs. April Ruth Akston. Nearly all of the paintings are hung in public areas of various buildings on the campus.

THE PIEDMONT UNIVERSITY CENTER

Wake Forest University is a member of the Piedmont University Center of North Carolina, Incorporated, founded in March 1963 as a coordinating agency in the field of higher education. Center membership includes twenty liberal arts colleges and universities located chiefly in the Piedmont area of North Carolina. From the first months of its existence the Center's headquarters have been located at Reynolda House in Winston-Salem. The Center is headed by an Executive Director, and its Board of Directors consists of the Presidents of the twenty member institutions.

Through programs of interinstitutional cooperation, the Center seeks to assist its member colleges (a) to enrich and expand their present educational programs; (b) to increase the effectiveness of certain services, such as library and audio-visual, and (c) to achieve greater economy in the total business operation.

ADMISSION

A candidate for undergraduate admission to Wake Forest University must furnish testimonials of good moral character, must present evidences of educational achievement represented by graduation from an accredited public high school or an accredited private secondary school, and must present a score (senior year preferred) on the Scholastic Aptitude (Morning) Test of the College Entrance Examination Board. The record of the work done by the applicant in high school or in a private secondary school and the recommendations of the school official must be sent direct to the Director of Admissions of Wake Forest College (division of arts and sciences) by an official of the school, and the test scores must be sent from the test center. They may not be submitted by the applicant.

Information about the times and places at which the College Board test may be taken and an application for taking the test may be secured from the high school or from College Entrance Examination Board, Box 592, Princeton, New Jersey 08540.

Careful consideration will be given to the applicant's academic records, scores on tests, and evidences of character, purpose in life, and general fitness for college life. The University reserves the right to reject any application without explanation.

An applicant for admission who has attended another college must be a graduate of a standard junior college or must furnish a certificate of honorable dismissal stating that the applicant is eligible in all respects to re-enter the college last attended, and must have an overall average of at least C on all college work attempted.* These are minimum requirements for consideration.

The applicant should fill out and return as early as practical the student's part of the application, and should then give to the high school principal, superintendent, or other appropriate school official the other parts to be completed and sent to the Director of Admissions of Wake Forest College for the attention of the Committee on Admissions.

An application fee of \$15.00 to cover the cost of processing the application is required. This should accompany the application and will not be applied to later charges or refunded, in

* Please see academic requirements for graduation, especially for one who has attended more than one college before applying for admission to Wake Forest College.

Admission

the event of failure to be admitted or of cancellation of the application.

If possible, the completed application should be sent at least eight months prior to the date on which the applicant hopes to enroll in Wake Forest College, but not before September 15 of the applicant's senior year in high school. Except in case of emergency, the final date for making application for the spring semester is January 15; for the fall semester, August 15.

The minimum prescribed requirements for admission to all degrees are as follows:

English	4 units
One Foreign Language	2 units
History (Social Studies)	2 units
Mathematics:	
Algebra	1½ or 2 units
Geometry	1 unit
Electives to bring the total to 16 units	

A student who is admitted from another college before fully meeting the minimum prescribed requirements outlined above for entering freshmen must remove the entrance conditions during the first year at Wake Forest.

When an applicant has received notice of acceptance for admission or readmission to Wake Forest College, an admission deposit of \$100.00 must be sent to the Director of Admissions of Wake Forest College not later than three weeks after the notice of acceptance is mailed. (Make checks payable to Wake Forest University.) Failure to pay this deposit within three weeks will be considered as indicating that the applicant does not intend to enter Wake Forest College. This deposit will be credited toward the applicant's college fees. It will be refunded, if the application for admission or re-admission is cancelled by the applicant and a written request for refund is received by the Director of Admissions of Wake Forest College not later than May 15 for the fall semester or November 1 for the spring semester. Refunds will not be made after these dates.

If a student is accepted for admission or re-admission after May 15 for the fall semester or after November 1 for the spring semester, the admission deposit is due within two weeks of the date of acceptance. Deposits made after May 15 and November 1 are not refundable.

No deposit is required of a student who expects to enroll for the summer session only.

THE EARLY DECISION PLAN

This plan is available to well qualified high school students who at the close of their junior year have definitely decided that their first choice college is Wake Forest. An Early Decision Agreement is required with each application.

The application for early decision must be filed in October of the applicant's senior year in high school. It must include the high school record through the junior year, scores on the Scholastic Aptitude Test of the College Entrance Examination Board and scores on three achievement tests: (1) English Composition, (2) Mathematics or foreign language, (3) one to be chosen by the applicant. Preferably, these tests should be taken in March or May of the junior year.

By early November, the Committee on Admissions will make decisions on completed applications. If an applicant is accepted, the required deposit must be paid not later than January 1. Those not admitted by early decision will be asked to submit a senior year Scholastic Aptitude Test score and the first semester's grades of their senior year, or they will be advised to apply elsewhere.

ADVANCED PLACEMENT

Wake Forest University recognizes college-level work done in high school by giving credit and placement on the basis of Advanced Placement Examinations of the College Entrance Examination Board and such pertinent supplementary information as may be available.

Exceptionally qualified applicants for advanced standing may receive exemption from some basic courses with credit on the authorization of the department concerned. For the purposes of computing quality point ratios, etc., credit gained by advanced standing examination is treated as credit transferred to Wake Forest College from another college.

ADMISSION TO ADVANCED STANDING

Courses satisfactorily completed in other accredited colleges are accepted under the regulations that have been adopted by the faculty for the approval of such courses. In general, however, no credit is allowed for courses not found in the curriculum of Wake Forest College. All credits allowed for advanced standing are held in suspense until the candidate has spent one term in residence. The minimum residence requirement for a baccalaureate degree is two academic years — the senior year and one other.

UNIVERSITY CHARGES AND FINANCIAL ARRANGEMENTS

Statements in this Bulletin concerning expenses are not to be regarded as forming an irrevocable contract between the student and the University. The University reserves the right to change without notice the cost of instruction at any time within the student's term of residence.

Charges are due in full 10 days prior to registration. Information concerning payment will be sent to all students prior to the beginning of each semester.

Faculty regulations require that a student's University account must be settled in full before he is entitled to receive his grades, a transcript of his record, a diploma, or to register for the succeeding semester.

WAKE FOREST COLLEGE

Charges for the Regular School Year

<i>MEN</i>	<i>Per Semester</i>	<i>Per Year</i>
Tuition	\$ 825	\$1,650
Activity Fee ¹	75	150
Dormitory Room Rental (double room each) ²	155	310
	\$1,055	\$2,110

<i>WOMEN</i>	<i>Per Semester</i>	<i>Per Year</i>
Tuition	\$ 825	\$1,650
Activity Fee ¹	75	150
Dormitory Room Rental (double room each) ²	165	330
	\$1,065	\$2,130

Deduct admission and reservation deposit from above charges. See pages 26 and 27.

¹ Part-time students (those enrolled for fewer than 3 courses) are charged \$200.00 per course, but do not pay the activity fee. Part-time students are not entitled to claim the designated scholarships listed on page 37, nor are they granted free admission to athletic contests, free receipt of publications or infirmary services.

² In addition to the double rooms, there are a limited number of single rooms that rent for \$25.00 more a semester and a limited number of triple rooms for men that rent for \$35.00 less than a double room.

Charges

The activity fee covers such items as would normally require the payment of a fee, namely, libraries, laboratories, admission to all intercollegiate athletic contests at Wake Forest University, and to certain student activities, including religious and dramatic organizations, the College Union, cost of student publications, *Old Gold and Black*, *The Student*, and *The Howler*. It further provides for the attendance of the University physician and nurses in the University hospital.

A cafeteria, soda shop, and table service dining room are located in Reynolda Hall. Meals may be purchased individually or under an optional board plan. The approximate yearly cost individually is \$600-\$700. Contractual board plan reduces cost by about one-third.

Books and supplies are available at the College Book Store, located on the campus. The approximate yearly cost is \$125.

Laundry is arranged for privately. A laundry operated by a Winston-Salem firm is located on campus.

OTHER COLLEGE CHARGES

Admission Application Fee. Required with each application for admission to cover cost of processing. Non-refundable. \$15.00.

Admission Deposit. Required of each student entering for the first time, or re-entering after a period of non-attendance. Must be sent to the Director of Admissions within three weeks after acceptance for admission or re-admission. The deposit is credited to the student's University charges for the semester for which he has been accepted for admission. It is refunded if the Director of Admissions is notified in writing prior to May 15 for the fall semester and November 1 for the spring semester, of cancellation of plans to enter. \$100.00.

Applied Music. Required in addition to tuition of students enrolling for individual or class study in applied music as described in the offering of the Department of Music. Payable in the Treasurer's office. Fees per semester range from \$30.00 to \$80.00 for class instruction of one hour per week. Practice fees are from \$5.00 to \$14.00.

Dormitory Damages and Repairs. The student is charged for damages to his room or university property in accordance with Dormitory Rule 4. Appeal may be made to the Board of Dormitory Damage Appeals.

Graduation Fee. Required of all students who are candidates for degrees. \$15.00.

Hospital Bed and Board Charge. The student is charged when confined to the University Hospital. An additional charge is made for special services and expensive drugs. University Hospital charges range from \$20.00 to \$30.00 a day.

Since most insurance companies do not cover admissions to a university hospital or infirmary, students are urged to arrange for the student insurance which covers these charges. The student insurance premium is usually under \$35.00 per year.

Key Deposit. Required for each key issued to a dormitory room. Refunded when key is returned. \$3.00.

Late Registration Fee. Charged to students registering after the dates set by the faculty. \$10.00.

Library Fines. Charges for overdue and lost books and for violation of other Library regulations. Payable in the Library.

Reservation Deposit. Students enrolled in the spring semester who expect to return for the next regular session beginning in September are required to pay a reservation deposit at a date set by the Treasurer. It is credited to the student's University charges and will be refunded under the same conditions specified for the admission deposit, except that refunds will be made if requested prior to June 15. \$100.00.

Room Change Fees. \$5.00 is charged for authorized room changes made after October 1 in the fall semester, after February 15 in the spring semester. The fine is \$20.00 for any unauthorized change.

ROTC Deposit. Required of each student enrolled in ROTC before equipment may be issued to him. Refunded at the end of the school year, less any loss or damage, fair wear and tear excepted, and a \$2.00 assessment for the Military Ball. \$20.00.

Special Examination. Required for each special examination taken to remove a course condition. \$2.50.

Charges

Student Apartment Rental. Paid monthly at \$60.00 per month.

Traffic Fines. Assessed against students violating parking regulations, copies of which are obtainable from the Traffic office. May be appealed to the Board of Traffic Appeals. Vehicle Registration \$20.00. Illegal parking \$2.00 each violation.

Trailer Park Rental. Paid each semester at the rate of \$30.00.

Transcripts. Copies of a student's record are issued for him. First copy free, additional copies \$1.00 each.

SUMMER SESSION

A bulletin of the Summer Session is published in March of each year and may be obtained by writing the Dean of the Summer Session, Wake Forest University, Winston-Salem, N. C. 27109.

MANAGEMENT, LAW, MEDICINE AND GRADUATE SCHOOLS

Bulletins for these schools should be consulted for information as to expenses. Requests for the bulletins should be addressed to the appropriate Dean, Wake Forest University, Winston-Salem, N. C.

WITHDRAWAL

Students withdrawing must follow the procedure set forth on page 55 and must present their identification cards to the Treasurer before any claim for refund may be considered. No refund of dormitory room rent is made. Refund of tuition and activity fee is made according to the following table:

<i>Number of Weeks Attendance*</i>	<i>Percentage of Total Tuition and Activity Fee to be Refunded</i>
1	Total tuition less \$100
2	75%
3	50%
4	25%

* Counting from the first day of registration and fractions of a week to count as a full week.

FOOD SERVICES

Four types of food service are available to students at Wake Forest University — cafeteria, grill, table service, and special dining service for small parties. The cafeteria menus feature multiple choices planned and supervised by a trained home economist. Table service is provided in the Magnolia Room and gives the students a quiet place to enjoy eating with a menu of greater variety, as well as foods prepared to order. Buffets are served in the Magnolia Room each Wednesday noon and Thursday evening.

HOUSING

All unmarried undergraduate students who do not live in or near Winston-Salem with their parents must live in University residences unless off-campus permission is given in writing by the Dean of Men or the Dean of Women.

HOUSING FOR MARRIED STUDENTS

An apartment building containing 56 apartments is located on the northwest edge of the campus. A trailer park containing 55 spaces is located on the east side of the campus. Apartments and trailer spaces are available only to bona fide students of Wake Forest University.

Applications for either apartments or trailer spaces should be directed to the Director of Residences. Assignments are made on the basis of priorities established by the date of application, and a lease is executed by the student and the University.

HOUSING FOR MEN¹

The semestral charge for double occupancy is \$155.00 per student, due and payable with tuition, and may not be deferred. The charge for a single room is \$180.00 per semester and for a double room occupied as a single room \$205.00 per semester. When three persons occupy a room, the charge is \$120.00 per person per semester. Room rental is not refunded upon withdrawal. Room assignments are made by the Dean of Men.

¹ See footnote number 2 on page 25.

HOUSING FOR WOMEN¹

Married women students are not ordinarily permitted to live in the dormitories. Single women students in the professional school may live in quarters approved by the Dean of Women.

The assignment of rooms is made to women students after admission requirements have been satisfied. Notification of assignments is made in the summer preceding the opening of the session in September.

The semester charge ranges from \$165 to \$210 per student, due and payable with tuition, and may not be deferred. An additional charge of \$25 per semester is assessed for a single room, and the additional charge for a double room used as a single room is \$50 per semester.

HOUSING REGULATIONS

Details of regulations and conditions governing occupancy of University housing are found in the *Student Handbook*.

¹ See footnote number 2 on page 25.

SCHOLARSHIPS, LOAN FUNDS AND STUDENT EMPLOYMENT

By regulation of the Board of Trustees, all financial aid must be approved by the Committee on Scholarships and Student Aid of Wake Forest College (division of arts and sciences). The Committee requires that applications for financial aid be made on forms obtainable by addressing the Committee at Box 7305, Winston-Salem, N. C. 27109.

Scholarships supported by funds of the College are not granted to students enrolled in the graduate and professional schools of the University.

To receive consideration for financial aid, the applicant must either be a registered, full-time student in Wake Forest College or must have been accepted for admission. A prospective student who is not applying for the Guy T. Carswell Scholarships or the George Foster Hankins Scholarships should wait until he has heard from the Admissions Committee before requesting the appropriate forms to make application for financial aid.

Need is a factor in the award of virtually all financial aid, with the exception of the \$1,000 honorary Carswell awards. Each applicant must file a financial statement as part of his application for financial aid.

The Committee reserves the right to revoke any financial aid for unworthy achievement.

No financial aid is automatically renewable. Application must be made each year.

Applicants should submit applications sufficiently early so that final action will have been taken before the beginning of the school year.

SCHOLARSHIPS

The Alpha Phi Omega Scholarship. Established by the Kappa Theta Chapter of Alpha Phi Omega, National Service Fraternity, this scholarship is available to a male freshman student who presents evidence of need and an excellent high school record. A minimum of \$200.00 is available.

Scholarships

Eliza Pratt Brown Scholarship. Donated by the late Junius Calvin Brown of Madison, North Carolina, in honor of his wife, Eliza Pratt Brown, the fund shall be used to assist needy, worthy, and deserving students from North Carolina, with preference being given to students from the town of Madison and Rockingham County. The maximum value is \$1,200.

Burlington Industries Scholarship. Donated by Burlington Industries Foundation, this scholarship is available to one who has junior standing, has done all previous work at Wake Forest and has an average of 3.0 or better. Leadership, scholarship, and need are considered in making the award. The value of the scholarship is \$1,000.00, with half of this amount available in each of the junior and senior years.

The J. G. Carroll Memorial Athletic Scholarship. A fund donated in memory of Professor J. G. Carroll, former Associate Professor of Mathematics. The award will be made to some deserving athlete who is not on a regular athletic scholarship. The value of this scholarship is approximately \$100.

Guy T. Carswell Scholarships. This scholarship program was made possible by and established in honor of the late Guy T. Carswell and his wife, Mrs. Clara Carswell of Charlotte, North Carolina. The scholarships carry an annual value ranging from a minimum stipend of \$1,000 to a maximum stipend of \$3,300. Awards for more than \$1,000 will be determined on the basis of need. A Carswell scholar may be any student applying to Wake Forest College who possesses outstanding qualities of intellect and leadership. Up to twenty-five scholars will be selected by the Committee annually.

College Scholarships. These scholarships, in the amounts of \$100 to \$1,650 each, are available to freshmen and upperclassmen presenting satisfactory academic records and evidence of need.

Devotion Foundation Scholarship. Donated by the Devotion Foundation, this scholarship is to be used for those needy students who have a keen interest in and high aptitude for the subject of mathematics and its related interests. The value of this scholarship is up to \$2,000.

Educational Opportunity Grants. These scholarships are available to a limited number of undergraduate students with exceptional financial need who require these grants to attend college. To be eligible, the student must also show academic or creative promise. Grants will range from \$200 to \$1000 a year, and can be no more than one-half of the total assistance given the student. The amount of financial assistance a student may receive depends upon his need — taking into account his financial resources, those of his parents, and the cost of attending the college of his choice.

Ernst & Ernst Scholarship. Ernst & Ernst, Certified Public Accountants, present to an outstanding accounting major an Accounting Achievement Award. The award is in the amount of \$500. The recipient for this award will be designated by the accounting faculty.

The Lecausey P. and Lula H. Freeman Scholarship. Donated by Mr. and Mrs. G. H. Singleton, Raleigh, North Carolina, in memory of the parents of Mrs. Singleton. One scholarship is available to a student who may be a freshman, sophomore, or junior, and whose home is within the West Chowan Baptist Association of North Carolina with preference to Bertie County students, on the basis of need and ability. If no qualified applicant appears from the West Chowan Association, then residents of the Roanoke Association may be considered. The scholarship is renewable on the basis of need and ability for all school years except the senior year. The value of this scholarship is approximately \$200.

James W. Gill Scholarship. Donated by Mrs. Ruth R. Gill in memory of her husband, James W. Gill. The fund provides a scholarship for a deserving student, with preference to students from Montgomery and Prince George's Counties, Maryland. The value of this scholarship is approximately \$600.

Fuller Hamrick Scholarship. Created under the will of the late Everett C. Snyder of Wake Forest, North Carolina, in memory of Fuller Hamrick. The income from this fund shall be used to educate boys and girls from The Mills Home in Thomasville, North Carolina. Value of this scholarship is approximately \$500.

George Foster Hankins Scholarships — Freshmen. These scholarships were made possible by the late Colonel George Foster Hankins of Lexington, N. C. Applicants must be residents of North Carolina or children of Wake Forest alumni residing in other states. Preference will be given to residents of Davidson County, North Carolina. Only high school seniors are eligible to compete and must request the necessary application forms before December 1 of their senior year. The value of these scholarships will range up to \$2,900.

George Foster Hankins Scholarships — Upperclassmen. Upperclassmen are eligible for Hankins Scholarships. However, they must have been enrolled in Wake Forest College for at least one semester before they may apply as upperclassmen. Applications must be on file with the Scholarships Committee no later than May 1 of each year for the following school year, and preference will be given to applicants from Davidson County, North Carolina. The amount of the award will vary according to the student's need as determined from the financial statement required to be submitted with his application.

Frank P. Hobgood Scholarship. This scholarship, donated by Mrs. Kate H. Hobgood of Reidsville, North Carolina, in memory of her husband, is available to those who qualify on "the basis of character, purpose, intelligence, and need, with preference being given to those who plan to enter the ministry, do religious work, become teachers, or become lawyers, the preference being in the order named." Applicants must be legal residents of the city of Reidsville or live within 10 miles of that city and must be recommended by the deacons of the First Baptist Church of Reidsville. The value of this scholarship is \$500.

Junior College Scholarships. One scholarship is available each year to a graduate of each of the junior colleges of the North Carolina Baptist State Convention, in the amount of \$150. The recipient must rank in the upper one-fourth of the junior college graduating class. Awarded only on the recommendation of the president of the junior college.

Thurman D. Kitchin Scholarship. Donated by the Interfraternity Council in memory of the late Thurman D. Kitchin, President of Wake Forest College from 1930 to 1950, it is available to a male freshman student presenting a high school record

of superior grade and evidence of need. The value of this scholarship is approximately \$300.

Marie Dayton McDonald Scholarship. Donated by Dr. Thane McDonald and friends in memory of his wife. The income from this fund is available to a deserving and qualified music student. The value is approximately \$125.00 per year.

Norfleet Scholarship. Donated by Mrs. Eustace Norfleet of Wilmington, North Carolina, in memory of his parents, John A. and Mary Pope Norfleet, five scholarships are available in the amount of \$200 each to "deserving and promising students desiring to attend Wake Forest College and needing financial assistance."

North Carolina Scholarships — The Trustees have established a scholarship fund from which awards are made on the basis of need to full time students who are bona fide North Carolina residents. This fund is designed primarily for those students whose need is between \$100 and \$200 per year. An abbreviated application is required rather than the Parents' Confidential Statement of the College Scholarship Service.

Benjamin Wingate Parham Scholarship. This fund was donated by Mrs. Kate J. Parham of Oxford, North Carolina, in memory of her husband. One full scholarship shall be awarded in each school year on the basis of both ability and need. It may be renewed for succeeding years.

Thomas F. Pettus Scholarships. Administered by the North Carolina Baptist Foundation, Inc., under the terms of the will of the late Thomas F. Pettus of Wilson County, North Carolina, this fund makes two or more scholarships available each year in memory of Mr. Pettus. These scholarships are to be awarded by the college on the basis of merit and need with preference to North Carolina Baptist students.

William Louis Poteat Scholarships. Five scholarships will be awarded annually to the graduates of the Baptist junior colleges in North Carolina. Each scholarship will range up to \$500 depending on need as determined from a financial statement submitted by each applicant with the application. It may be renewed for the senior year.

Oliver D. and Caroline E. Revell Memorial Scholarship Fund. Created under the will of the late Oliver D. Revell of Buncombe County, North Carolina, this fund makes available \$100 per year to one person preparing for the ministry or full-time religious work.

Kate B. Reynolds Memorial Scholarships. Donated in memory of the late Mrs. Kate B. Reynolds. Applicants must be residents of Forsyth County, North Carolina, who without financial aid would be unable to obtain education beyond high school. Preference will be given to men. Four scholarships of \$1,400 each are awarded.

A. M. Pullen and Company Scholarship. The A. M. Pullen and Company, Certified Public Accountants, grants to an outstanding upper division accounting major an annual tuition scholarship of \$600. The recipient, to be designated by the accounting faculty, is selected on the basis of merit, financial need, and interest in public accounting.

ROTC Scholarship. Two, three and four-year ROTC scholarships are available to students who are motivated toward the Army. Applications for four-year scholarships are submitted by high school seniors in the late fall to the Commanding General of their respective Army area. ROTC freshmen and sophomores at the University apply to the Professor of Military Science for two-year and three-year scholarships. Each scholarship recipient commits himself by contract to a special military obligation and receives full tuition, fees, books and classroom materials for the regular school year, and a subsistence allowance of \$50 per month for the period that the scholarship is in effect. Once awarded, scholarships remain in effect throughout the contract period subject to satisfactory academic and ROTC performance.

The Saddye Stephenson and Benjamin Louis Sykes Scholarship. Donated by Dr. Charles L. Sykes and Dr. Ralph J. Sykes in memory of their father and mother. One scholarship will be awarded each year on the basis of Christian character, academic proficiency, and financial need. Preference will be given to freshmen from the State of North Carolina. It may be renewable each year. The value of this scholarship is approximately \$400.

Western Electric Scholarship. Donated by the Western Electric Fund, this scholarship may be awarded to an undergraduate on the basis of leadership, scholastic attainment, and financial need. Value, up to \$1,200.

Jesse A. Williams Scholarships. Created under the will of the late Jesse A. Williams of Union County, North Carolina, this fund provides scholarships in amounts of up to \$1,200 per year. Preference will be given to deserving students of Union County.

Charles Littell Wilson Scholarship. Created under the will of Mrs. Jennie Mayes Wilson in memory of her husband, the late Charles Littell Wilson, this fund makes available one freshman scholarship each year ranging from \$200 to \$600.

William Luther Wyatt, III, Scholarship Trust. This fund was donated by Mr. and Mrs. William L. Wyatt, Jr., of Raleigh, North Carolina, in memory of their late son, William Luther Wyatt, III. The purpose of this fund is to award one or more scholarships in each school year to a student, preferably to a male student entering the junior year, who has shown an interest and an ability in the field of biology. The award shall be based on both the need and the ability of the student. The value of this scholarship is approximately \$500.

Designated Scholarships for:

Ministerial Students. Granted on the following conditions: (1) Written recommendation or license to preach authorized by the applicant's own church body and (2) signature by the applicant of an agreement to pay the amount of the scholarship, with interest, in the event that he does not serve five years in the pastoral ministry within twelve years from the last date of attendance at Wake Forest, subject to cancellation in the event of death. Value, up to \$300.00.

Children of Ministers. Awards to those whose fathers make their living chiefly by the ministry. Value, up to \$150.00.

Rehabilitation Students. Awarded to physically handicapped students who have (1) secured the necessary letter of approval from the North Carolina Division of Vocational Rehabilitation, Raleigh, and (2) filed application for the scholarship. Value, up to \$300.00.

Loan Funds

Students' Wives. Awarded to wives of students in Wake Forest University for not more than four school years or the equivalent. Becomes void if the husband ceases to be enrolled. Value, up to \$150.00.

LOAN FUNDS

James E. and Mary Z. Bryan Foundation Student Loan Plan. Established by Mary Z. Bryan, in 1953, as a memorial to her husband and administered by the College Foundation, Inc., in Raleigh. North Carolina students may borrow up to \$1,000.00 per academic year.

Bushnell Baptist Church Loan Fund. Established in 1945 with funds supplied by the Bushnell Baptist Church of Fontana Dam, North Carolina, for needy students.

Council Fund. Established in 1935 by Mr. C. T. Council of Durham, North Carolina, for the aid of senior students.

James W. Denmark Loan Fund. This fund was originated by the late James William Denmark of Dudley, North Carolina, in 1875, and is available to qualified students after at least one semester's work in the University. Preference is given to students from North Carolina. The amount available does not exceed \$800 each year and \$2,400 during the entire period of enrollment.

Olivia Dunn Student Loan Fund. Established under the will of Miss Birdie Dunn of Wake County, North Carolina, in memory of her mother, to be used as a loan fund for worthy students.

Duplin County Loan Fund. This loan fund was donated in 1942 by friends of the College who wish to remain anonymous and is limited to students from Duplin County, North Carolina.

Elliott B. Earnshaw Loan Fund. Established by the Board of Trustees of Wake Forest College as a memorial to the late E. B. Earnshaw, Bursar of Wake Forest College.

Friendly Student Loan Fund. This fund was established in 1948 by Miss Nell E. Stinson of Raleigh, North Carolina, in memory of her sister, Mary Belle Stinson Michael, for the benefit of worthy students who need financial aid.

Grover Carroll Loan Fund. Donated by Lt. Col. and Mrs. Robert C. Wells in memory of the late James Grover Carroll, Associate Professor of Mathematics at Wake Forest College, the sum of \$1,000 is available, the principal and interest of which may be loaned at 4% interest to worthy students who would otherwise be unable to finance completely a college education.

George Foster Hankins Loan Fund. Established under the will of the late Colonel George Foster Hankins of Lexington, North Carolina, with preference to be given to applicants from Davidson County, North Carolina.

Harris Memorial Loan Fund. Established by the late J. P. Harris of Bethel, North Carolina, in memory of his first wife, Lucy Shearon Harris, and his second wife, Lucy Jones Harris, for students who have demonstrated ability to apply educational advantages to the rendition of enriched and greater Christian service in life and whose circumstances require financial assistance in order to prevent disruption in their educational program.

Thomas M. Hunter, Jr., Memorial Scholarship. Established in 1948 by Mr. and Mrs. Thomas M. Hunter of Fayetteville, North Carolina, as a loan scholarship in memory of their son. The loan scholarship is available for students enrolled in the Bowman Gray School of Medicine who are preparing to become medical missionaries.

Edna Tyner Langston Fund. This fund, established in 1942 by Dr. Henry J. Langston of Danville, Virginia, in memory of his wife, is available to a student agreed upon by the donor and the college.

The National Defense Student Loan Program. This fund, created under the National Defense Education Act of 1958, makes available loans up to \$1500 per year for students in need of financial assistance. The law further provides that special consideration in the selection of loan recipients be given to all students with a superior academic background.

North Carolina Bankers Student Loan Plan. Established by the North Carolina Bankers Association, in 1962, at the request of Governor Terry Sanford and administered by the College

Exchange Scholarship

Foundation, Inc., in Raleigh. North Carolina students may borrow up to \$500.00 per academic year.

Watts Norton Loan Fund. Established in 1949 by Mr. L. Watts Norton of Durham, North Carolina. For the benefit of worthy young people enrolled in the Department of Religion who need financial assistance.

The Powers Fund. This fund was endowed by Dr. Frank P. Powers of Raleigh, North Carolina, in 1944 as a memorial to his parents, Frank P. and Effie Reade Powers, and is for the benefit of needy students, with preference given to orphans.

Grover and Addy Raby Loan Fund. Established in 1945 by Dr. J. G. Raby of Tarboro, North Carolina, in memory of his parents. Preference is given to applicants from the First Baptist Church of Tarboro.

James F. Slate Loan Fund. Established in 1908 by the late J. F. Slate of Stokes County, North Carolina, and is available for ministerial students who have been licensed to preach.

MINISTERIAL AID FUND

The Ministerial Aid Fund was established in 1897 through a bequest from the estate of the late J. A. Melke and has been added to from time to time.

Funds are available to ministerial students on either a loan or a grant basis. Written application must be made to the Committee on Scholarships and Student Aid on form obtainable from that committee. Awards are made on the basis of merit and need and, particularly in the case of grants, academic achievement. Five annual grants in the amount of \$200 each are regularly available, in addition to such others as the Committee may award.

GERMAN EXCHANGE SCHOLARSHIP

In 1959 a student exchange program was established between Wake Forest and the Free University of Berlin. At present one scholarship is available to an eligible Wake Forest University student. It provides (1) 400 German marks a month for ten months at the Free University of Berlin; (2) remission of all registration and insurance fees; (3) 200 German marks a semester for the purchase of books; (4) free accommodation in the *Studentendorf* (student village) comprising a single

room, use of kitchen, bath, electric light and linen. Candidates must have had at least two years of German at the college level or equivalent and must have acquired junior standing by the end of the semester in which they apply. Candidates may major in any of the fields offered at Wake Forest University with the permission of the chairman of the department in question.

SPANISH EXCHANGE SCHOLARSHIP

In 1964 a student exchange program was established between Wake Forest University and the University of the Andes, at Bogota, Colombia. At present the scholarships available to eligible Wake Forest students are: two scholarships of one semester's study each; or, one scholarship of two consecutive semesters. It is left to the discretion of Wake Forest University whether one or two students are selected annually to study during any given academic year at the University of the Andes. The scholarships provide: (1) remission of tuition and fees; (2) board and lodging; (3) textbooks. Candidates must have had at least two years of Spanish at the college level or the equivalent. Candidates may pursue studies in any of the fields offered at Wake Forest University with the permission of the department in question.

CHURCH CHOIR WORK GRANTS

These work grants are given by Wake Forest University and Wake Forest Baptist Church in order to encourage outstanding voice and University Choir students to participate in the Church Choir program. They are awarded on the basis of talent, reliability, and interest in the Church. The selection of recipients is made upon the joint recommendation of the Music Committee of the Church and the Department of Music of the University. There are 15 awards, each values at \$300.

STUDENT/STUDENT WIFE EMPLOYMENT

The Personnel Office assists students to locate either on- or off-campus, part-time employment. A maximum of 20 hours work per week is suggested for full-time students. Applications for part-time employment, as well as for summer jobs, may be obtained in Room 120, Reynolda Hall. Wives of University students may be referred by the Personnel Office to on-campus jobs or employment opportunities in the community.

ACTIVITIES

STUDENT GOVERNMENT

The two chief agencies of student government are the Student Legislature and the Student Honor Council.

The Student Legislature is composed of sixty-three student representatives, the vice-president of the student body serving as Speaker. It is the duty of the Student Legislature to perform all acts necessary in the exercise of its powers as the legislative branch of student government. The Legislature also sets up student committees to work parallel with faculty committees on matters concerning students.

The Student Honor Council, which tries violators of the Honor System, is composed of sixteen members from the senior, junior, and sophomore classes.

THE HONOR SYSTEM

The Honor System is an expression of the concern of Wake Forest University that its students shall be dominated by ideals of honor and integrity. The Honor System is an integral part of the Student Government of the College as adopted by the students and approved by the faculty. The essence of the Honor System is that each student's word can be trusted implicitly and that any violation of a student's word is an offense against the whole student community. The Honor System binds the student in such matters as the following: he must neither give nor receive aid upon any examination, quiz or other pledge work; he must have complete respect for the property rights of others; he must not give false testimony or pass a worthless check knowing it to be such; he must report to the Honor Council any violation of the Honor System that comes under his observation.

A student accused of violating the Honor System will be given a hearing before the Honor Council. If he is found guilty of cheating, he may be suspended from the College. Such student shall be re-admitted to the College only on the approval of the Faculty or its Executive Committee, and during the period of suspension his record shall not be subject to transfer

to another college without a notation of his suspension. The penalty for stealing, giving false testimony, or knowingly passing a worthless check may also be suspension. The penalty for failing to report to the Honor Council all violations of the Honor System which may come to a student's knowledge shall be in the discretion of the Honor Council.

Any student who has been convicted of violation of the Honor Code is ineligible to represent the University in any manner whatsoever until the period of his punishment, be it suspension, probation, or any other form, is completed and the student is returned to good standing.

Students in enforcing the Honor System are protecting the integrity of their student community and their own individual rights and reputation. They thereby enjoy the confidence of one another, the Faculty, the Administration and the public.

MEN'S JUDICIAL BOARD

The Men's Judicial Board, a student-faculty committee, rules on violations of the conduct regulations listed in Statute II of the Constitution of the Student Body (see the student handbook) and those conduct regulations established by the faculty which are included in this catalog. A student who violates one of these regulations or who behaves in such a way as to bring reproach upon himself or upon the University is subject to whatever penalty the Board deems appropriate.

SENIOR ORATIONS

On the second Monday in April the faculty selects four members of the senior class as speakers for commencement day. The nominations are made by the Student Affairs Committee of the faculty after consultation with the Department of Speech. The speakers selected are required to present their commencement addresses, limited to one thousand words, to the committee for approval before May 16.

FORENSIC ACTIVITIES

Wake Forest has always stressed participation in debating and allied speech activities, and the University holds membership in a number of state and national speech organizations,

including Delta Sigma Rho-Tau Kappa Alpha, national honorary forensic fraternity. Representatives of the University engage in state, regional, and national tournaments, and take part in debates, oratorical contests, and many other forms of competitive speaking.

All undergraduate students in good standing are eligible to participate in forensics and to represent the University in inter-collegiate competition.

DEBATE AND SPEECH TOURNAMENTS

A. Novice Tournament

In the fall of each year the University sponsors a debate tournament to which are invited college novice debaters. Awards are given to the winning schools at the end of the tournament. The tournament is open to college students who have never previously participated in intercollegiate debating.

B. Dixie Classic Varsity Tournament

In the late fall, the University sponsors a national debate tournament to which are invited colleges and universities who excel in debate. Trophies are given to the winning schools.

C. High School Invitational Tournament

In the winter of each year, the University chapter of DSR-TKA sponsors a high school debate tournament to which are invited high school debaters from throughout the Southeast. Awards are given to the winning schools.

D. Wake Forest University Speech Festival for High School Students

In the spring of each year, the University sponsors a speech festival, to which are invited the high schools of North Carolina. Awards are given to the winning schools and individuals in oral interpretation, radio announcing, extemporaneous speaking, oratory, after-dinner speaking and duet acting.

SPEECH INSTITUTE

High school students are invited to participate in the Summer Speech Institute, which is held for four weeks during the regular summer session, and which is open to students from all states. Specialized training in debate, public speaking, theatre, oral

interpretation and radio is offered, and students are given an opportunity to debate the national debate query in advance of the regular debate season.

UNIVERSITY THEATRE

The Wake Forest University Theatre, located on the 7th and 8th levels of the Z. Smith Reynolds Library, presents four major productions annually. The University Theatre offers a meaningful, creative outlet for all students at the University. Any student enrolled in the University is eligible to try out for the casts and to work with the production staffs.

The Wake Forest Chapter of the National Collegiate Players, honorary dramatic fraternity, was formed in the Spring of 1963. Eligibility for membership is determined by a student's scholastic average and an accumulation of points acquired through participation in University Theatre activities.

UNIVERSITY RADIO STATION—WFDD-FM

The University Radio Station, WFDD-FM, broadcasts year-round to the campus and throughout Piedmont North Carolina. The station is fully licensed by the Federal Communications Commission. Programs include music, news, sports, lectures, discussions, interviews, documentaries and drama. The station provides an opportunity for students to learn all phases of radio production while actually participating as announcers, interviewers, directors, newscasters, sportscasters, actors, and writers.

Participation is open to all students. Several financial assistantships, as well as summer jobs, are available each year for qualified students.

PUBLICATIONS

The Student, a literary magazine, *Old Gold and Black*, a weekly newspaper, and *The Howler*, the University annual, are published by the students.

MEDALS AND OTHER AWARDS

The A. D. Ward Medal is awarded annually to the senior making the best address on commencement day.

Medals and Other Awards

The Lura Baker Paden Medal, established in 1922 by Dean S. Paden (B.A., 1918), is awarded annually to the senior who has obtained the highest average grade on the courses taken by him in the School of Business Administration.

The F. B. Currin Medal is awarded annually for the best oration on the general topic of *Christ in Modern Life*.

The Carolina Award is presented to the major in Biology who writes the best paper on a subject selected by the National Biology Society. Given by the Carolina Biological Supply Company of Elon College, N. C.

The Biology Research Award is presented to the major in Biology who does the best piece of original research during the year. Given by the Beta Rho Chapter of Beta Beta Beta of Wake Forest University.

The Poteat Award is presented to the student in Biology 111-112 who is adjudged the most outstanding, and plans to major in the department. Given by the Will Corporation of Georgia, and sponsored by Beta Beta Beta.

The William E. Speas Memorial Award is presented each year to the outstanding graduating senior in the Department of Physics.

The Delta Sigma Pi Scholarship Key is presented to the graduating senior in the School of Business Administration who has earned the highest average during the seven semesters prior to the semester in which graduation occurs.

The A. M. Pullen and Company Medal is presented each year during commencement to the graduating accounting major who has reached the highest achievement in accounting studies.

The North Carolina Association of Certified Public Accountants Medal is awarded each spring to the outstanding senior accounting major.

The Wall Street Journal Medal and one year's subscription to the *Journal* are received each year by the graduating senior who has been most outstanding in finance courses.

The Tom Baker Award In Debate is given to the senior who has made the most outstanding contribution in the field of inter-collegiate debating.

The Tom Baker Award In Publications is given to the senior who has made the most outstanding contribution in the field of student publications.

The Claud H. Richards Award in Political Science is presented annually to the outstanding graduating senior in the Department of Political Science.

FRATERNITIES

The following social fraternities have been established: Alpha Sigma Phi, Delta Sigma Phi, Kappa Alpha, Kappa Sigma, Lambda Chi Alpha, Pi Kappa Alpha, Sigma Chi, Sigma Phi Epsilon, Sigma Pi, Theta Chi.

The Interfraternity Council, under the supervision of the Faculty Committee on Student Life, is the governing body of the social fraternities. The Council endeavors to maintain a high standard of conduct and scholarship. The Council offers a cup to the fraternity whose members made the highest class grades. By order of the faculty, students who are on probation for any reason may not be initiated into any fraternity until the end of their probationary period.

The following professional fraternities have been established: Alpha Kappa Psi (business), Delta Sigma Pi (business), Phi Alpha Delta (law), Phi Delta Phi (law), Phi Epsilon Kappa (physical education) and Phi Mu Alpha Sinfonia (Music). There is also a chapter of Alpha Phi Omega, national service fraternity.

HONOR SOCIETIES

The following honor societies have been established: Alpha Epsilon Delta (pre-medicine), Beta Beta Beta (biology), Delta Kappa Alpha (ministry), Delta Phi Alpha (German), Delta Sigma Rho-Tau Kappa Alpha (forensic), Eta Sigma Phi (classics), Gamma Sigma Epsilon (chemistry), Kappa Mu Epsilon (mathematics), National Collegiate Players (dramatics), Pershing Rifles (military), Phi Alpha Theta (history), Phi Sigma Iota (Romance languages), Pi Gamma Mu (social science), Rho Tau Sigma (radio), Scabbard and Blade (military), Phi Beta Kappa, Omicron Delta Kappa, and Mortar Board. There is also a Wake Forest University Student Section of the American Institute of Physics.

Phi Beta Kappa, an honor society founded at the College of William and Mary in 1776 and having chapters in many American colleges and universities, each year invites to membership a limited number of students who have displayed personal qualities of high character and who particularly have distinguished themselves in fields of liberal scholarship.

Outstanding junior and senior students enrolled in the Charles H. Babcock School of Business Administration may be elected to membership in Beta Gamma Sigma, the national honorary society in business.

Omicron Delta Kappa, an intercollegiate honor society which has as its purpose the recognition and encouragement "of intelligent, democratic leadership among college men," elects annually on the basis of character and eminence in one or more of the following five phases of campus life: "scholarship; athletics; student government, social and religious activities; publications; and forensic, dramatic, musical and other cultural activities."

Mortar Board is an intercollegiate honor society for women. Its purpose is "to advance the spirit of service and fellowship among university women, to promote and maintain a high standard of scholarship and to recognize and encourage leadership, and to stimulate and develop a finer type of college woman." Membership is based on service, scholarship, and leadership.

RECREATIONAL ACTIVITIES

Recognizing the importance of physical recreation in maintaining the well-being of students, the University provides extensive athletic and recreational facilities and a faculty of trained supervisors to direct activities in these fields. Each student is given the opportunity to develop his individual interest and skill in physical education and recreational classes. In addition to these classes, the Department of Physical Education undertakes a broad intramural sports program consisting of tournaments and organized club activities.

In order to provide for a recreational program for all students, the University maintains athletic fields, tennis courts, and a combination athletic, physical education and recreation building

which includes a swimming pool, handball and squash racquet courts, rhythm studio, recreational area, corrective rooms, a gymnastic and wrestling room, and four separate gymnasiums including a women's gym, a varsity basketball gym, and two men's intramural gyms.

THE COLLEGE UNION

The College Union at Wake Forest College is a union of all the students. Its purpose is to coordinate, increase and develop social, recreational, and educational activities available to Wake Forest College students, both on and off campus.

Students who pay the activities fee are members of the College Union. All others must pay \$10.00 per year to join.

The program of the College Union can best be presented by listing its eight committees: (1) Lecture Committee, (2) Recreation Committee, (3) Small Socials Committee, (4) Major Functions Committee, (5) Publicity Committee, (6) Movies Committee, (7) Travel Committee, (8) Arts Committee.

INTERCOLLEGIATE ATHLETICS

The Director of Athletics has general supervision of intercollegiate athletic activities.

The University is a member of the National Collegiate Athletic Association and the Atlantic Coast Conference. Rules and Regulations of the N.C.A.A., of the Conference, and of the University apply to all intercollegiate sports and eligibility of players.

GENERAL INFORMATION

During the spring of 1970 the Undergraduate Faculties of Wake Forest University adopted a new calendar and a number of important changes in the curriculum, to become effective in 1971-72. The academic calendar, usually referred to as the 4-1-4, includes a four-month fall semester ending before Christmas, a one-month winter term in January, and a four-month spring semester. The University Calendar for 1971-72 appears in the first pages of this bulletin. For the details of the new curriculum, consult the section on "Requirements for Degrees," beginning on page 63.

DEGREE CREDIT

Credit toward a degree is calculated not according to semester hours, but according to courses. Most subjects of study will be divided into full courses. Certain studies and activities, however, will count as half-courses, either for one semester's work or for two.

NORMAL CREDIT LOAD

A student's normal credit load is four full courses each semester. The maximum for one semester is four and one-half courses, except that under unusual circumstances a superior student may be allowed a slightly heavier load. Three courses per semester, the minimum registration without special permission, constitute full-time status.

A student elects one course for study during the winter term. For the years 1971-72 and 1972-73 all full-time students are required to participate in the winter term program. (See page 64.)

CLASSIFICATION

The requirements for classification after the freshman year are as follows:

Sophomore — the removal of all entrance conditions and the completion of not fewer than seven courses toward a degree, with a minimum of 14 quality points; Junior — the completion

of not fewer than 15 courses toward a degree, with a minimum of 30 quality points; Senior — not fewer than 26½ courses toward a degree, with a minimum of 53 quality points.

PROCEDURE IN REGISTERING

There are five steps in registration: (1) securing from the Registrar's Office a permit to register and a summary of prior record; (2) the payment of fees to the Treasurer; (3) consultation with an adviser, who gives such assistance as may be necessary in regard to the program of work; (4) sectioning of classes by departmental representatives; (5) appearance before the Registrar for approval of program and assignment to classes.

No student is allowed to enter any class until he has completed his registration.

REGISTRATION AFTER THE FRESHMAN YEAR

During each spring semester before an announced date (see Calendar) students who plan to return for the fall semester must make a reservation deposit. An undergraduate student who fails to pay the deposit at the required time is not eligible to register for the fall semester.

AUDITING OF CLASSES

A student regularly enrolled on a full-time basis may audit classes without charge, provided that the permission of the instructor is obtained. A person other than a regularly enrolled full-time student may audit classes at a charge of \$50.00 per course with the permission of the dean of the appropriate school and the instructor. An auditor is listed on the class roll as such and is subject to the usual attendance regulations and to whatever additional requirements the instructor may impose. If these conditions are properly fulfilled, a notation "audit" is entered in lieu of a grade on the instructor's final grade report. For the regularly enrolled student, this notation is also entered on his permanent record card. An auditor may receive no grade or credit for the course.

Each instructor shall report to the Registrar the presence of any student not registered regularly or as an auditor.

Grade of E

An audit course may not be changed to a credit course, and a credit course may not be changed to an audit course.

EXAMINATIONS AND GRADES

All examinations are conducted in accordance with the honor system adopted by the students and approved by the Faculty. Under this system the student is expected not only to refrain from unfairness in any form but also to report to the Honor Council anyone whom he knows to be guilty of cheating. Examination papers are accompanied by a signed statement that no aid has been given or received.

Grades in each course are assigned by the instructor as follows: A, exceptionally high achievement; B, superior; C, satisfactory; D, passing but unsatisfactory; E, conditional failure; F, failure.

Grades are assigned quality points as follows: for each full course of A, 4 points; of B, 3 points; of C, 2 points; of D, 1 point; and of E and F, no points. The quality point ratio is calculated by dividing the total number of quality points earned by the total number of courses attempted, whether passed or not.

GRADE OF I

The grade of I (incomplete) may be assigned only when on account of illness or some other emergency a student does not complete the work of his course. If the work recorded as I is not completed within thirty days after the student enters for his next semester, the grade automatically becomes F.

GRADE OF E

A student who makes a grade of E on any course may be re-examined at any regular examination period within a year, or during the first week of the fall semester. The re-examination permit is secured from the Registrar's Office a few days in advance. No grade higher than D may be assigned as a result of a re-examination. A student who does not remove a conditional failure by one re-examination must repeat the course to secure credit.

PASS-FAIL GRADES

A student during his junior and senior years is permitted to elect up to 4 full courses (but no more than one course in a given semester), with the stipulation that grades for these courses will be recorded as *Pass* (P) or *Fail* (F) only and that these grades will not be counted in computing the student's quality point ratio. A grade of *Pass* carries full academic credit; a grade of *Fail* carries no academic credit. A student must indicate at the time of registration that he is choosing to take a course under this arrangement, and he may not change it to a letter-grade basis after the first two weeks of classes. In preparing his class roll the instructor will indicate which students are registered on a *Pass-Fail* basis.

Courses selected for *Pass-Fail* grades must be other than those submitted by the student to satisfy the basic and divisional course requirements or those in the student's major.

REPETITION OF COURSES

A student may not repeat for credit a course on which he has already received a grade of C or higher.

CLASS ATTENDANCE

The attendance regulations specifically place the responsibility for class attendance upon the individual student. *He is expected to attend classes regularly and punctually.* A student should recognize that one of the most vital aspects of a residential college experience is attendance in the classroom and that the value of this academic experience cannot be fully measured by testing procedures alone.

The members of the student body are considered sufficiently mature to appreciate the necessity of regular attendance, to accept this personal responsibility, and to demonstrate the kind of self-discipline essential for such performance and, conversely, to recognize and accept the consequences of failure to attend. An instructor is privileged to refer to the Office of the Dean of the College for suitable action students who in his opinion are causing their work or that of the class to suffer because of absences or latenesses. Any student who does not attend

Dropping A Course

classes regularly, or who demonstrates other evidence of academic irresponsibility, is subject to such disciplinary action as the Executive Committee may prescribe, including immediate suspension from the College.

The Office of the Dean of the College maintains a list of students who have been absent from class (1) because of illness (when certified by the University Health Service) or other extenuating circumstances or (2) as authorized representatives of the University (when their names have been submitted by appropriate University officials forty-eight hours in advance of the hour when the absences are to commence). Such absences are considered "excused," and a record of them is available to the student's instructors upon request. An instructor determines whether work the student has missed (including quizzes) may be made up.

ENFORCEMENT OF REGULATIONS

The enforcement of all regulations pertaining to academic matters is regarded as a function of the faculty, or representatives of the faculty. A well-organized Student Government assumes responsibility, in co-operation with the Office of the Dean, for the regulations of the honor system and various other matters involving personal conduct. In general, the regulations of the University are adapted to and intended for those who have reached such maturity that they may exercise self-control. All students are expected to be faithful in work, to be prompt and regular in attendance upon all their college duties, and to refrain from practices injurious to others. Those who neglect their work, or engage in conduct that brings reproach upon themselves and upon the University, or disregard the rights and the welfare of their students are required to withdraw from the University.

DROPPING A COURSE

The last day for dropping a class without the grade of F is listed in the University calendar on page 6 of this Catalog. A student who wishes to drop any course *before* this date must consult the Registrar and his faculty adviser. *After* this date, if he wishes to drop a course, he must consult his faculty adviser, his instructor, and either the Dean of the College or the Director

Minimum Academic Requirements

of the B.B.A. Program, as appropriate. If the Dean approves the request, he authorizes the student to discontinue the course. Except in the case of an emergency, the grade in the course will be recorded as F.

If, at any time, a student shall drop any course without prior, written approval of the Dean, a grade of F for that course shall be reported by the instructor to the Registrar, and the student will be subject to academic probation for the following semester or to such other penalties as the Executive Committee of the faculty may impose.

WITHDRAWAL FROM COLLEGE

A student who finds it necessary to withdraw from the College is required to do so through the Office of the Dean of the College. If in the judgment of the dean the withdrawal is justified and the student is otherwise in good academic standing, no grades will be recorded on the student's permanent record for that semester. However, the student's standing in his courses at the time of withdrawal will be taken into consideration should he at a later date seek readmission to the College. If the withdrawal is for academic reasons, failing grades may be assigned in all courses in which the student is not doing satisfactory work.

If a student leaves the College without officially withdrawing, he will be assigned failing grades in all his current courses and his unofficial withdrawal will be indicated on his record.

MINIMUM ACADEMIC REQUIREMENTS FOR CONTINUATION

Each student is expected to be aware at all times of his academic status and to be responsible for knowing whether he has met the College's minimum academic requirements for continuation as outlined below.

On the basis of their cumulative records at the end of the spring semester, the following students are academically ineligible to enroll for the following fall term:

- (1) Those students who, having attempted 13 or fewer courses in all colleges attended, have an over-all quality point ratio* of less than 1.35 on work attempted at Wake Forest.

* The quality point ratio is obtained by dividing the quality points earned by the number of courses attempted.

Minimum Academic Requirements

(2) Those students who, having attempted no fewer than 14 and no more than 24 courses in all colleges attended, have an over-all quality point ratio of less than 1.65 on work attempted at Wake Forest.

(3) Those students who, having attempted no fewer than 25 and no more than 33 courses in all colleges attended, have an over-all quality point ratio of less than 1.85 on work attempted at Wake Forest.

(4) Those students who, having attempted 34 or more courses in all colleges attended, have an over-all quality point ratio of less than 1.90 on work attempted at Wake Forest.

In the determination of quality point ratio, non-credit courses are not counted.

Ordinarily a student who is ineligible under the minimum requirements above may attend the first summer term at Wake Forest; if he is successful in raising his over-all quality point ratio on work attempted at Wake Forest to the required minimum, he may enroll for the fall semester. If he is unsuccessful by the end of the first summer term, he may attend the second term in Wake Forest; if he is successful then in raising his quality point ratio to the required minimum, he may apply for readmission no earlier than for the following spring semester. If he is unsuccessful in meeting the minimum requirements by the end of the second summer term, he may apply for readmission no earlier than for the following summer session.

Requirements for continuation are to be determined by the catalog under which the student expects to be graduated.

Under exceptionally extenuating circumstances beyond the control of the student, and after consultation with the student's dean, an appeal from the foregoing eligibility requirements may be considered by the Executive Committee of the faculty.

The Executive Committee of the faculty may also suspend from college at the end of any term any student whose record for that term has been unsatisfactory, particularly with regard to the number of courses passed and failed, or who has not attended class regularly or has otherwise ignored the rules and regulations of the College.

REQUIREMENTS FOR READMISSION

Any student seeking readmission to Wake Forest University must meet the minimum academic requirements for continuation for students in his category of courses attempted (see page 55), except that

(1) a student who has not met these requirements may apply for admission to the summer school only;

(2) a student may apply for readmission if he has been away from Wake Forest continuously for at least a year and a half and has spent that time constructively;

(3) a student may apply for readmission after less than the year and a half if he has been enrolled in another college or if his failure to have the required average at the time of his suspension was due to exceptionally extenuating circumstances beyond his control.

It should be understood by the student and his parents that meeting the requirements set forth above does not insure that the student will be readmitted to the University.

PROBATION

A student is responsible at all times for knowing his academic standing.

Any student who at the end of the fall semester does not have the grade average which he will be required to have at the end of the spring semester will be automatically on academic probation.

Any student who is placed on probation because of honor code or conduct code violations shall also be placed on such special academic probation as the Executive Committee of the faculty shall impose. In addition, the Executive Committee may at any time place on probation any student whose academic performance or social behavior is inconsistent with what the Committee deems to be the best interests of the student or the University.

SENIOR CONDITIONS

A candidate for graduation in his final semester who receives a grade of E at the close of the previous semester may apply

to the Registrar for re-examination 30 days after the opening of the final semester and not less than 30 days before its close.

All conditions must be removed 30 days before the end of the last term of the student's graduation year. The name of a candidate for graduation who has a condition after that date is dropped from the roll of the class.

If a student receives a grade of E in a course in the final term of his graduation year, he is not allowed a re-examination before the next examination period.

REPORTS

A mid-term report is given to the student and a copy is sent to the parent or guardian of each student who is doing unsatisfactory work. At the end of each term a final report of grades is given to the student, and a copy is sent to the parent or guardian.

THE DEAN'S LIST

The Dean's List will be issued at the end of each semester by the Dean of the College and the Director of the B.B.A. Program and will include all full-time students who have made a quality point ratio of 3.0 for the semester. Grades earned during a summer session are not considered in the preparation of the List.

GRADUATION DISTINCTIONS

Under the quality point system, graduation distinctions are determined as follows:

A candidate for a baccalaureate degree who is credited with quality points which give him a ratio of not less than 3.80, in relation to the total number of courses attempted, shall be graduated with the distinction *summa cum laude*; not less than 3.50, *magna cum laude*; not less than 3.00, *cum laude*. The entire record of a student is considered, with the understanding that a transfer student may receive no distinction which requires a quality point ratio greater than that earned in Wake Forest University.

TRANSCRIPTS OF STUDENT RECORDS

The first copy of a student's record is issued for him without charge. Requests for subsequent copies should be made to the Registrar, and should be accompanied by a remittance of one dollar for each copy desired. No transcript will be issued without the authorization of the owner of the record.

SUMMER SESSION ELSEWHERE

A student who desires to attend summer session in another college must secure the advance approval of the Registrar and the chairman of the department concerned.

A transcript of the record is required for posting at the close of the summer session.

STUDY ABROAD

To be granted the privilege of studying abroad a student who plans to return to Wake Forest must plan a program of study relevant to his degree program at the University and must secure in advance the approval of the chairman of his major department and the dean of the school in which he is enrolled. He must then file an approved Study Abroad Application with the Registrar.

Maximum credit for a full year program (nine courses) may be granted upon evidence of a satisfactory evaluation by the University of the work taken.

Students are encouraged to study under one of the established programs sponsored by American colleges and universities. In some cases independent study at foreign universities may be approved. A transcript of the record is required for posting after completion of approved foreign study.

EXPERIMENT IN INTERNATIONAL LIVING

The Independent Study Program of The Experiment in International Living, Putney, Vermont 05346, is recognized by the University. This is a semester program, available in any one of several counties either semester. To participate in this program, a student must be a regularly enrolled student planning to return to the University upon completion of the semester

abroad. The program of study must be approved in advance by the chairman of the student's major department, the chairman of such other departments as may be involved and the dean of the school in which the student is enrolled. The program carries a maximum credit of three or four courses upon satisfactory completion, subject to evaluation by the Wake Forest Faculty.

READING IMPROVEMENT PROGRAM FOR UNIVERSITY STUDENTS

A reading improvement course is available on the Wake Forest University campus to all students. It is designed to help students read and study more effectively to achieve a greater measure of success in the many different areas of university work. Instruction centers around increasing the speed of comprehension and improving comprehension, vocabulary, and study skills. Group diagnostic tests are given to determine specific weaknesses of students. The class meets twice each week (one hour periods) in the afternoons and is offered both semesters. The charge for the course is \$65.00, which includes fees for materials and use of the reading machines.

CENTER FOR PSYCHOLOGICAL SERVICES

The Center provides specialized services in educational-vocational testing and counseling, and in personal adjustment counseling. These services provide evidence of the student's aptitudes, interest, and achievements and assist him in making the most of his opportunities for academic and personal development while in college. The Center, with offices in Efird Hall, is staffed by professionally trained psychologists. There is no charge to the full-time student for Center services.

STUDENT HEALTH SERVICE

The Student Health Service provides those services necessary to students in the maintenance of their health. Utilizing the medical report from a student's family physician, the Health Service physicians evaluate the student's health status when he is admitted. Any health problems present then, or arising later, are treated in the University Clinic and Hospital. The facilities and personnel of the Bowman Gray School of Medicine, the North Carolina Baptist Hospital, and the Forsyth Memorial

Hospital are also used if needed. The Health Service also works closely with the Center for Psychological Services on mental health problems.

In the Clinic a minimum charge is made for medications and laboratory tests, but none for office visits. When it becomes necessary to refer patients to specialists or for studies elsewhere, all costs must be assumed by the student.

THE CHURCH AND INDUSTRY INSTITUTE

The Church and Industry Institute provides learning opportunities for clergy of all religious groups to understand industry. Since its establishment in 1966, it has placed clergy in educational centers operated by industry and in continuing education centers operated by universities for industry and has conducted summer programs for seminarians in industry. In addition to consulting services, it also designs conferences for denominational groups and seminaries. The Institute publishes a quarterly of reprints for clergy.

URBAN AFFAIRS INSTITUTE

The Wake Forest Urban Affairs Institute, established in 1968, serves as the means to channel the resources of the University into problem areas of the urban community. It also serves as a communications focal point for agencies and individuals outside the University. In the pursuit of its responsibilities the Institute engages in programs of education, research and community service utilizing the resources of both the faculty and student body.

PLACEMENT OFFICE SERVICES

The Placement Office arranges on-campus, career interviews with business firms, government agencies, school systems, and other organizations, for graduating students at Wake Forest University. Career information may be found in the Placement Office, Room 118, Reynolda Hall. The Director of Placement is available during regular office hours for consultation on career matters.

NAVY ROC PROGRAM

The United States Navy offers a Reserve Officer Candidate (ROC) program whereby a Wake Forest student may complete his military requirements for a commission as Ensign in the United States Naval Reserve by attending weekly drills (optional) at the Winston-Salem Naval Reserve Training Center, 930 Brookstown Avenue, and by attending ROC schools during the summers following his junior and senior years (required). Further information is available through the Commanding Officer of the Training Center or Dr. Carlton Mitchell of the Wake Forest faculty.

VETERANS

Applicants who need information concerning educational benefits for veterans and children of veterans should consult the nearest regional office of the Veterans Administration. This office for North Carolina is located in the Wachovia Building, Winston-Salem, North Carolina.

REQUIREMENTS FOR DEGREES

The degrees conferred are Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration*, Master of Arts, Juris Doctor, Doctor of Philosophy; and Doctor of Medicine, Master of Science and Doctor of Philosophy in the Bowman Gray School of Medicine.

The basic and divisional requirements for the Bachelor of Arts and the Bachelor of Science degrees are the same.

The degree of Bachelor of Science is conferred only upon those students who (1) complete a major in Accountancy, Business, Chemistry**, Mathematics, Physical Education, Physics, or Education with State teacher's certification in Science; (2) complete the degree requirements in Medical Sciences, Medical Technology, Medical Record Administration, or the Physician Assistant Program; or (3) complete the requirements for the combined degree in Dentistry, Engineering, or Forestry.

The degree of Bachelor of Arts is conferred upon those students who (1) complete a major in Biology, Chemistry**, Classical Languages, Economics, English, German, History, Music, Philosophy, Political Science, Psychology, Religion, Romance Languages, Sociology and Anthropology, or Speech Communication and Theatre Arts.

Each student is responsible for acquainting himself with the requirements for graduation, and for meeting the requirements as stated.

A student who has been graduated from Wake Forest University with the degree of Bachelor of Arts or Bachelor of Science may not thereafter receive the other of these two degrees.

THE UNDERGRADUATE CURRICULUM

The new undergraduate curriculum that becomes effective in September, 1971, is intended to offer students greater latitude in planning the first two years of their college work. Apart from a year of physical education, only three specific courses are

* In the absence of extenuating circumstances, the B.B.A. will not be awarded after June 1973.

** Under certain conditions, a student majoring in Chemistry may receive either a B.S. or a B.A. degree. For details, see the introduction to course offerings in Chemistry.

required — one in English Composition and two in a foreign language. Even these may sometimes be waived under certain conditions. To round out their preparation for more specialized work in a major field, students select three courses in each of four divisions: I. Language, Literature, and the Arts; II. Natural Sciences and Mathematics; III. History, Religion, and Philosophy; and IV. Social and Behavioral Sciences. By the spring of the sophomore year students should have decided on a major field of concentration. Ordinarily a large part of the work of the junior and senior years is devoted to the major field.

THE WINTER TERM

Perhaps the most striking change in the undergraduate program for 1971-72 is the short winter term scheduled in January between the regular semesters. Ideally, each winter term course should be new, original, and exciting, an opportunity for professors and students alike to break away from the usual pattern of academic subjects and methods. The more creative student, like the more imaginative faculty member, should find opportunity in the winter term for following his own genius. Both professor and student will concentrate on one course only during the winter term. A number of courses will require travel away from the campus in this country and abroad.

ACADEMIC REQUIREMENTS

For the degree of Bachelor of Arts or Bachelor of Science the student must complete (1) the basic and divisional course requirements, (2) a course of study approved by his major department, and (3) elective courses to make a total of 35½ courses. At least 32 full courses must be included in the 35½ courses required for graduation.

Of the full courses, at least three must be completed during the winter terms. At least two of the winter-term courses selected must be designed especially for the winter term, one in the student's major and one outside his major.

In addition to the above requirements for graduation, the student must earn a C average on all full courses attempted and a C average on all courses attempted, whether full or half-courses.

Divisional Course Requirements

A student who transfers from another institution or takes any work in other institutions must earn a C average on all full courses attempted in Wake Forest College, a C average on all work (full and half-courses combined) attempted at Wake Forest, and a C average on all work attempted at all colleges.

Of the 35½ courses required for graduation, 17 must be completed in Wake Forest College, including the work of the senior year. An exception to this rule is made in the case of combined degrees.

A student has the privilege of graduating under the requirements of the catalog under which he enters provided that he completes his course within six years. After the interval of six years he is expected to conform to the requirements specified for the class with which he is graduated.

BASIC COURSE REQUIREMENTS

All students enrolled in Wake Forest College must complete three required basic courses. However, any or all of these courses may be waived through procedures established by the departments concerned. In case of such waivers, no substitutes are required. The courses are:

English 110 (English Composition)

Foreign Language 153 (Intermediate)*

Foreign Language (Literature) [one course]

French or Spanish 215

Russian 215 or 218

German 211

Greek 211

Latin 211, 212, or 216

DIVISIONAL COURSE REQUIREMENTS

All students are required to select 3 courses from each of 4 major divisions of the curriculum, as follows (except that qualified applicants for "Advanced Placement" may be exempt from these courses and may under certain conditions receive college credit for them without being required to make substitutions):

* No student may repeat for credit of any kind the first year of any language which he had in high school unless, after taking the language placement test, he is given permission to do so by his adviser and by a committee composed of one faculty member from each of the three language departments. If a student begins a foreign language in college, he receives elective credit for the first year.

Divisional Course Requirements

- I. *Language, Literature, and the Arts*: 3 courses to be chosen from among the following (no more than one may be chosen from each category)
 1. English Literature
English 160 or 165
 2. American Literature
English 170 or 175
 3. Foreign Literature II
 - a. Classical Languages
Greek 212 or 231
 - b. Latin 212, 216, 221, 225 or 226
Classics 253, 254, 263, 264, 265 or 272
 - b. German 212
 - c. Romance Languages
French or Spanish 216, or any course in French or Spanish above 224
Russian 217
 - d. Humanities 213, 214, 215 or 216
 4. Fine Arts
Humanities 111
- II. *Natural Sciences and Mathematics*: 3 courses to be chosen from among the following (the 3 courses are to be selected from only 2 departments, or the requirement may be satisfied by the three-course sequence in the Natural Sciences)
 1. Biology
Biology 111, 112, 151, 152 [If one course, either Biology 111 or 151; if two courses, either Biology 111-112 or Biology 151-152]
 2. Chemistry
Chemistry 111, 112 [If the student has had no chemistry; other courses for those with advance preparation]
 3. Physics
Physics 111, 112 (1 or both courses)
 4. Physics-Chemistry sequence
Physics 117 — Chemistry 118 [replaces either Physics 111-112 or Chemistry 111-112. May not be taken after Physics or Chemistry 111-112.]
 5. Mathematics
Mathematics 111, 112, 115, 116 [If one course only, may be any one of the four. If two, may be any pair other than Math 111-116]
- III. *History, Religion, and Philosophy*: 3 courses (no more than one to be chosen from each category)
 1. History [any one course]
History 111, 112, 113, 215, 216, 315, 341, 342, 345, 346, 349, 350

Physical Education Requirement

2. Religion [any one course]
Any course *except* 237, 240, 281, 282, 292, 318, 346, 362, 378
3. Philosophy [any one course]
Philosophy 151, 171, 172

IV. *Economics, Political Science, Psychology, Sociology, and Anthropology*: 3 courses to be chosen from among the following (no more than 2 may be selected from any one department)

1. Economics
Economics 111, 151, 152 [If one course only, Economics 111 or 151. If two courses, Economics 151-152; however, Economics 111 and any other Economics course may be taken by permission of the department.]
2. Political Science
Political Science 111, 112, 113 [If one course only, any of those listed. If 2 courses, any 2 listed or one of those listed and any other in the department.]
3. Psychology
Psychology 151 [required as first course]
If a second course, normally from among: Psychology 266, 273, 344, 362. [But, under special circumstances, second course may be chosen from among: 321, 323, 331, 332, 338, 352, 356]
4. Sociology and Anthropology
Sociology 151 or Anthropology 162 [required as first course]
If two courses are chosen: a) after Sociology 151, either Anthropology 162 or any other Sociology course except 371 and 380; b) after Anthropology 162, either Sociology 151 or any 300-level Anthropology course.

PHYSICAL EDUCATION REQUIREMENT

All students must complete one half-course (two semesters) in Physical Education — Course 111-112.

COMPLETION OF COURSE REQUIREMENTS

The basic and divisional course requirements, along with the Physical Education requirement, are to be completed, where possible, by the end of the sophomore year. Some students will find it necessary to postpone some of these requirements until the junior year in order to begin certain courses essential to the major field; but a minimum of three full courses from among the requirements must appear on the student's program each semester until such requirements have been met.

No course requirements may be set aside or replaced by substitutes except through regular procedures already estab-

lished by the faculty, or through a specific vote of the faculty in regular session. An important exception to this rule is described below.

THE OPEN CURRICULUM

The Open Curriculum is an experimental program that gives a limited number of freshmen the opportunity to design their own program of study under faculty supervision. A student in the Open Curriculum may enroll in some basic and divisional courses but bypass others. If his qualifications are adequate, he may proceed at once to some of the more advanced courses. The Open Curriculum is administered by a Faculty committee under the basic principle that a liberal education entails work in a number of areas representing the humanities, the natural sciences, and the social sciences.

ADMISSION TO THE UPPER DIVISION

The work in the lower division, as specified in the preceding pages of this section, is intended to give the student an introduction to the various fields of knowledge and to lay the foundation for concentration in a major subject and related fields during the junior and senior years.

Before applying for admission to the upper division and beginning work on the major subject, a student should have 17 courses and 34 quality points in the lower division. In no case will a student be admitted to the upper division with fewer than 15 courses and 30 quality points.

All students at the end of the sophomore year or at the beginning of the junior year are required to pass a proficiency test in the use of the English language.

COURSE OF STUDY FOR THE UPPER DIVISION

Thirty days before the end of his sophomore year each student is required to indicate to the Registrar and to the department or school concerned his selection of a major subject in which he wishes to concentrate during his junior and senior years. Before this selection is formally approved by the Registrar, however, the student must present to him a written statement from the authorized representative of the department or

school in which he wishes to major that he has received the permission of that department or school. The student will also at this time be assigned a specific adviser from the department or school to assist him in planning his work for the junior and senior years.

A department which rejects a student as a major will file with the Dean of the College a written statement including the reason(s) for the rejection.

After the beginning of the junior year a student may not change from one major to another without the approval of the departments concerned.

The student's course of study for the junior and senior years includes the minimum requirements for the departmental major, together with such other courses as he shall select and his adviser shall approve.

For specific course requirements in the various fields of study, consult the introductory statements for each department in the selection of the catalog where course offerings are listed.

At least half of the major must be completed in Wake Forest College.

Students preparing for the ministry are advised to elect three courses in religion beyond the course included in the divisional requirements.

FIELDS OF STUDY

The following fields of study are recognized: Accountancy, Anthropology, Biology, Business, Chemistry, Economics, Education, English, French, German, Greek, History, Latin, Mathematics, Music, Philosophy, Physical Education, Physics, Political Science, Psychology, Religion, Sociology, Spanish, Speech Communication and Theatre Arts.

MAXIMUM NUMBER OF COURSES IN A DEPARTMENT

A maximum of ten (10) semester courses and two (2) winter-term courses in a single field of study (as in the paragraph above) are allowed within the thirty-five and one-half (35½) courses required for graduation. [This means that a

student may apply as many as 10 semester courses from one department toward the $35\frac{1}{2}$ "courses" for graduation. This excludes required related semester courses from other departments.]

For Dual-Major departments, twelve (12) semester courses and two (2) winter-term courses are allowed in any department authorized to offer two fields of study. Elementary foreign language in the major field of study is excluded.

These limits of ten (10) and twelve (12) courses may only be exceeded in unusual circumstances by action of the Dean of the College.

SENIOR TESTING PROGRAM

All seniors are required to participate in a testing program designed to provide objective evidence of educational development while in college. The program will employ measures of academic achievement such as selected portions of the Graduate Record Examination and/or other tests deemed appropriate by the Executive Committee of the faculty. The tests are given in late spring, and relevant results are made available to the student for his information. The primary purpose of the program, however, is to provide the college with information that will facilitate the assessment of the total educational process. (This program does not supplant the regular administrations of the Graduate Record Examination for those students applying for admission to graduate schools.)

COMBINED DEGREES

DEGREES IN THE SCHOOL OF LAW

A combined course makes it possible for a student in Wake Forest University to receive the two degrees of Bachelor of Arts and Juris Doctor in six academic years or their equivalent instead of the seven years required if the two curricula are pursued independently. The first three years of the combined course are in Wake Forest College and the last three are in the School of Law.

A student pursuing this plan must fulfill the following requirements:

1. Complete the basic and divisional course requirements of Wake Forest College (see pp. 65) and become qualified for admission to the upper division.
2. Initiate an application for admission to the School of Law, and secure through the Law School Adviser, who is a member of the Law faculty, permission to pursue the combined course plan. (Admission to the School of Law is based on the applicant's entire undergraduate record, Law School Admission Test scores, and other criteria. Therefore, permission to pursue the combined degree program does not constitute admission to the School of Law.)
3. Perform the junior year of study in Wake Forest College under the supervision of the Law School Adviser.
4. Complete at least 27 courses in Wake Forest College (including two courses taken in winter terms, one of which must be designed for the winter term) with a minimum average of C and the first full year of Law in the School of Law with an average sufficient for him to remain in the School of Law.

At least one year of the required college academic work must be taken at Wake Forest College. A student who transfers from another institution at the end of his first or second year must maintain a minimum average grade of C on all academic work undertaken during his residence at Wake Forest College.

A student who completes this program successfully will be eligible to receive the Bachelor of Arts degree at the end of the first full year in the School of Law. The Juris Doctor degree will be awarded the student who, having received the B. A. degree, also fulfills requirements for the J. D. degree as described on page 166.

The quantitative and qualitative academic requirements set forth herein are minimum requirements for the successful completion of the combined degree program. Satisfying the requirements of the three-year program in the College does not necessarily entitle an applicant to admission to the School of Law. Admission requirements for the School of Law are given in detail on page 164 and in the *Bulletin* of the School of Law.

DEGREES IN MEDICAL SCIENCES

A limited number of students, by taking advantage of the special arrangement explained here, may receive the B.S. degree with a major in Medical Sciences.

Under this plan the student fulfills the requirements for the degree by completing three years of work in Wake Forest College with a minimum average grade of C, and by satisfactorily completing the first full year of Medicine (at least 30 semester hours) as outlined by the faculty of the Bowman Gray School of Medicine, with a record entitling him to promotion to the Second Year Class. At least one year (9 courses) of the required academic work must be completed in Wake Forest College.

Candidates for the B.S. degree with a major in Medical Sciences must complete the following courses in Wake Forest College before entering the School of Medicine for their fourth year of work:*

The basic course requirements listed on page 65.

The divisional course requirements in Divisions I, III, and IV (see pages 65-66).

The physical education requirement (see page 67).

Biology 111, 112 or 151, 152 (2 courses)

* See pages 169-170 and the special bulletin of the Bowman Gray School of Medicine for further information.

Biology (2 courses) selected from the following: 312, 320, 321, 326, 351, 360, 370

Chemistry 111, 112 (2 courses)

Chemistry 221, 222 (2 courses)

Physics 111, 112 (2 courses)

Mathematics (1 course)

Electives (to make a total of 27 courses)

The completion of the prescribed academic subjects does not necessarily admit any student to the School of Medicine. All other factors being equal, applicants who have done all their college work in Wake Forest College are given preference.

DEGREE IN MEDICAL TECHNOLOGY

Students may qualify for the Bachelor of Science degree in Medical Technology by completion of the academic requirements outlined below with a minimum average grade of C, and by satisfactory completion of the full program in Medical Technology offered by the Division of Allied Health Programs of Bowman Gray School of Medicine with at least a grade of C in all courses taken in the program of Medical Technology. At least one year (nine courses) of the required academic work must be completed in Wake Forest College. Candidates for the degree must complete the following three-year course at Wake Forest before beginning study in the Division of Allied Health Programs.[†]

The basic course requirements listed on page 65.

The divisional course requirements in Divisions I, III, and IV (see pages 65-66).

The physical education requirement (see page 67).

Biology 111, 112 (2 courses)

Biology 151, 152 (2 courses)

Biology 326 (1 course)

Chemistry 111, 112 (2 courses)

Chemistry 221, 222 (2 courses)

Mathematics (1 course)

Electives (to make a total of 27 courses)

[†] For further information write to the Division of Allied Health Programs of the Bowman Gray School of Medicine.

DEGREE IN MEDICAL RECORD ADMINISTRATION

Students may qualify for the Bachelor of Science degree in Medical Record Administration by completion of three years (27 courses) in college with a minimum average grade of C and by satisfactory completion of the full twelve-month course in Medical Record Administration offered by the Division of Allied Health Programs of the Bowman Gray School of Medicine. At least one year (9 courses) of the required academic work must be completed in Wake Forest College. Candidates for the degree must complete the basic course requirements, the divisional course requirements, and the physical education requirement, as outlined on pages 65-67 of this catalog. They must take at least 4 lecture-and-laboratory courses in biology, including 2 courses in anatomy and physiology, and at least 4 courses in the social sciences (sociology, psychology, and economics are recommended). A course in statistics is also recommended.

DEGREE IN THE PHYSICIAN ASSISTANT PROGRAM

Students may qualify for the Bachelor of Science degree in the Physician Assistant Program by completion of three years (27 courses) in college with a minimum average grade of C and by satisfactory completion of the full 24-months course in the Physician Assistant Program offered by the Division of Allied Health Programs of the Bowman Gray School of Medicine. At least one year (9 courses) of the required academic work must be completed in Wake Forest College. Candidates for the degree must complete the basic course requirements, the divisional course requirements, and the physical education requirement, as outlined on pages 65-67 of this catalog. They must take at least 4 lecture-and-laboratory courses in biology, including one course in microbiology, and at least 4 courses in the social sciences (sociology, psychology, and economics are recommended). A course in statistics and 1 or 2 courses in chemistry and physics are also recommended.

DEGREE IN MICROBIOLOGY

Students may qualify for the Bachelor of Science degree in Microbiology by completion of three years (27 courses) in

college with a minimum average grade of C and by satisfactory completion of a 32-hour major in Microbiology at the Bowman Gray School of Medicine. At least one year (9 courses) of the required academic work must be completed in Wake Forest College. Candidates for the degree must complete the basic course requirements, the divisional course requirements, and the physical education requirement as outlined on pages 65-67 of this catalog.

The major in Microbiology must include Microbiology 301, 302, 308, 311, and 312 and Biology 370. In some cases Biology 326 may be substituted for Microbiology 301. Two additional courses must be chosen from among: Microbiology 309, 310, 313, and 314 and Biology 321. Required related courses are 2 courses in Physics and at least 2 courses in Organic Chemistry. Additional chemistry and mathematics courses may be suggested by the major adviser for students progressing towards advanced work in Microbiology.

For further information about the Department of Microbiology see the *Bulletin* of the Graduate School.

DEGREE WITH MAJOR IN DENTISTRY

A student may fulfill the requirements for a B.S. degree with a major in Dentistry by completing three years of work in Wake Forest College with a minimum average grade of C, and by satisfactorily completing the first two years of work in one of certain approved dental schools designated by Wake Forest University, with a record entitling him to advancement to the Third Year Class.

For this degree the requirements in Wake Forest College are the same as outlined above for the B.S. degree with a major in Medical Sciences.

DEGREES IN ENGINEERING THE 3-2 ENGINEERING PROGRAM

Wake Forest University now cooperates with North Carolina State University in offering a broad course of study in the arts and sciences combined with specialized training in engineering.

The program, for outstanding students, covers five years of study including three initial years on the campus of Wake Forest University and two full years of technical training in one of the fields of engineering. Depending upon the field chosen, it may be necessary for a student to take an additional summer's work in engineering.

Upon successful completion of the five years of study the student will receive the degree of Bachelor of Science from Wake Forest University and the degree of Bachelor of Science in one of the specialized engineering fields from North Carolina State University.

By obtaining the first degree from Wake Forest University and the second from an engineering college, the graduate will be well suited for positions of higher responsibility where public relations and technical knowledge are combined. This combination plan is recognized by nationally known educators as a wise program in allowing the student a broad background in the liberal arts in addition to the specialized and technical training involved in the engineering degree.

The curriculum for the first three years must include all the basic course requirements for the Bachelor of Science degree, as outlined on pages 65-67 of this catalog. A suggested program follows:

Freshman Year

1st semester

English 110

Physics 117

Math 111

Foreign Language

Physical Education 111

2nd semester

Eng. Lit 160*

Chem. 118

Math 112

For. Lang. 211 or 215

Physical Ed. 112 ($\frac{1}{2}$ course)

Sophomore Year

Amer. Lit. 170*

Physics 151

Math 113

Philosophy 151**

Humanities 111*

Physics 211

Math 251

Religion**

Plus $\frac{1}{2}$ course

* Foreign Literature is also an option for any *one* of these.

** Several options are allowed in each of these disciplines.

Junior Year

History**	Science Elective
Science Elective	Elective
Math 311	Econ. 152
Econ. 151	
Psychology, Sociology or Political Science	

Plus $\frac{1}{2}$ course

This is a rigorous curriculum, demanding even for students with an aptitude for science and mathematics. The electives are chosen in consultation with the engineering adviser in the Department of Physics.

DEGREES IN FORESTRY

Wake Forest University now cooperates with Duke University in an academic forestry training program. A student in this program devotes three years to study in the arts and sciences at Wake Forest University. [At least two years (18 courses) must be completed in Wake Forest College.] He spends the summer between his junior and senior years and the two following years in the Duke University School of Forestry. Upon the successful completion of this five-year course of study he receives the degree of Bachelor of Science from Wake Forest University and the degree of Master of Forestry from the Duke School of Forestry.

A student who wishes to qualify for this program must make formal application for admission to the Duke School of Forestry not later than the end of the first semester of his third year in college. To qualify for admission he must have followed a planned course of study as outlined below, must have the official recommendation of Wake Forest University, and must have an over-all quality point ratio of at least 2.5.

Candidates for the degrees in forestry must complete the following three-year course before beginning study in the Duke School of Forestry:

The basic course requirements listed on page 65.

** Several options are allowed in each of these disciplines.

The divisional course requirements in Divisions I, III, and IV (see pages 65-67).

The physical education requirement (see page 67).

Biology 111, 112 or 151, 152 (2 courses)

Economics 151, 152 (2 courses)

Chemistry 111, 112 (2 courses)

Mathematics 111, 112 (2 courses)

Physics 111, 112 (2 courses)

2 courses beyond the first year introductory courses in any one of the biological, physical, or social sciences.

Electives (to make a total of 27 courses)

(Suggested electives: Biology, Chemistry, Logic, Mathematics, Speech)

Students in this program will be advised in the Department of Biology.

COURSES IN THE COLLEGE

COURSE NUMBERS

The numbers of the semester courses offered by the various departments are explained as follows: courses 1-99 carry no credit; courses 101-199 are primarily for freshmen and sophomores; courses 201-299, primarily for juniors and seniors; courses 301-399, for advanced undergraduate and graduate students; and courses 401-499, for graduate students. The letter S used as a prefix to a course number indicates that the course is offered during the summer session only. (Winter term courses are listed in a separate catalog and have their own numbering system).

Courses with odd numbers are regularly given in the fall term; courses with even numbers, in the spring term. However, introductory or basic courses in many departments will be offered every term so that students may arrange their work in regular sequence, according to the time of entrance. Accordingly, revised class schedules will be distributed each term, containing the name of each instructor and the time and location of each class.

CREDIT; LABORATORY COURSES

All credit is granted in terms of courses, whether full or half courses. A semester course and a winter term course are considered equivalents for credit purposes. In the course listings below, each course listed carries one full course of credit unless it is specifically designated as a half course. A course listing that carries credit of a half course for one semester is designated "½ per sem." A listing that carries credit of a half course for two semesters is designated "½ per 2 sem." The course description of a course that includes laboratory work indicates the number of hours per week normally spent in the laboratory, as "Lab.—3 hrs."

PREREQUISITES AND COREQUISITES

The prerequisite for a course is indicated, for example, as P-153, meaning that course 153 in the department under con-

sideration will be required for admittance to the desired course. When a prerequisite is in another department, the name of the department is given. A corequisite is indicated, for example, as C-151.

INTERDISCIPLINARY HONORS PROGRAM

Wake Forest University offers an interdisciplinary honors program for a limited number of highly qualified students. Participation is with the approval of the Faculty Committee on Honors.

During their first three years in college, participants will schedule at least three interdisciplinary honors seminars (normally including two courses in the Lower Division and one course in the Upper Division). Many students will probably not participate formally in the interdisciplinary program beyond the third year, but will choose instead to concentrate on departmental honors work in their major fields. Students, however, who are not candidates for departmental honors and who have completed four interdisciplinary seminars with a superior record may elect Honors 281 (directed study culminating in an honors paper and an oral examination). Those whose work in this course is superior and who have achieved an over-all quality point ratio of at least 3.0 in all college work will be graduated "with Honors in the Arts and Sciences." Those students, on the other hand, who have chosen to be candidates for departmental honors may not also be candidates for "Honors in the Arts and Sciences."

The courses described below (except for Honors 281) are designed to supplement the usual general education of the freshman and sophomore years and the more specialized work of the junior year. Honors 281 will normally be scheduled in the first semester of the senior year.

The Honors program is supervised by a Faculty Committee on Honors. Faculty participants in the interdisciplinary courses are drawn from various academic departments of the College.

Honors 131, 132. *Approaches to Human Experience (I)*. An inquiry into the nature and interrelationships of several approaches to man's experience, represented by the work of three such men as Leonardo da Vinci, St. Augustine, Dante, Newton, Gandhi, Confucius, Dostoyevsky

Mozart, Jefferson, and Einstein. Seminar discussion based on primary and secondary sources, including musical works and paintings. Written reports and a term paper required.

(Offered in alternate years)

Honors 133, 134. *Approaches to Human Experience (II)*. A parallel course to Honors 131, 132, concentrating on the work of a different set of figures such as Buddha, Galileo, Tolstoy, Pascal, Camus, Picasso, Tagore, Sophocles, and Bach.

(Offered in alternate years)

Honors 233. *Darwinism and the Modern World*. A study of the Darwinian theory of evolution and the impact of evolutionary thought on fields such as economics, politics, psychology, literature and the other arts, and philosophy.

(Offered in alternate years)

Honors 235. *The Ideal Society*. Man's effort to establish or imagine the ideal community, state or society, principles of political and social organization, changing goals and values. Study of historical communities such as those of the pre-Christian Essenes, Geneva under John Calvin, Fourierite and Owenite communities of the 19th century. Reading in such works as Plato's *Republic*, Augustine's *The City of God*, More's *Utopia*, Bacon's *The New Atlantis*, Rousseau's *Emile*, Orwell's *1984*, and Skinner's *Walden Two*.

(Offered in alternate years)

Honors 237. *The Scientific Outlook*. An exploration into the origins and development of the scientific method and into some of its contemporary applications in the natural and social sciences and the humanities.

(Offered in alternate years)

Honors 238. *Romanticism*. Romanticism as a recurrent characteristic of mind and art and as a specific historical movement in Europe and America in the late 18th and 19th centuries. Emphasis upon primary materials in such fields as philosophy, history, literature, music and painting.

(Offered in alternate years)

Honors 239. *Man and the Irrational*. The phenomenon of the irrational, with emphasis on its 20th century manifestations but with attention also to its presence in centuries and cultures other than our own. Such areas as philosophy, religion, literature, and psychology, politics and the arts will be explored.

(Offered in alternate years)

Honors 242. *The Comic View*. The theory of comedy in ancient and modern times; the expression of the comic spirit in literature, art, music, the theater and the motion picture.

(Offered in alternate years)

Honors 244. *Man and the Structure of the Universe*. An investigation of various conceptions of the universe and of their implications for man.

Study will not necessarily be limited to the cosmologies of Ptolemy, Copernicus, and their modern successors, but may also include theories like the Babylonian, Mayan, and Taoist.

(Offered in alternate years)

Honors 246. *Man and His Environment*. An interdisciplinary examination of man and his society in relation to his environment.

(Offered in alternate years)

Honors 281. *Directed Study*. Readings on an interdisciplinary topic approved by the Faculty Committee on Honors; preparation of a major research or interpretative paper based on these readings, under the direction of a member of the Faculty; and an oral examination on the topic, administered by the faculty supervisor and the Committee on Honors. Eligible students who wish to take this course must submit a written request to the Committee on Honors by the end of the junior year. (Not open to candidates for departmental honors.)

DEPARTMENTAL HONORS PROGRAMS

A number of departments in the College offer specialized honors programs for highly qualified majors, who may be graduated "with Honors" in their major field. Details are given by the departments concerned.

ART

PROFESSOR AYCOCK

ASSOCIATE PROFESSOR BOYD (Chairman)

INSTRUCTOR GRIFFIN

ARTIST-IN-RESIDENCE PROHASKA

An art major is not offered at the present time, but students interested in this area of study should consult the Chairman of the Department.

ART HISTORY

Courses listed below are open to qualified freshmen and sophomores with permission of the instructor.

221. *Art of India*. A survey of Architecture, Painting, and Sculpture from the earliest times to 1200 A.D., with particular attention given to the aesthetic considerations, religious ideas, and ritual needs of Hinduism, Buddhism, and Jainism. MR. GOKHALE

231. *American Art*. A survey of American Painting and Sculpture from 1600 to 1900, with primary emphasis on painting. MR. BOYD

233. *American Architecture*. A survey of American Architecture from 1600 to 1900, with particular emphasis on the Eighteenth and Early Nineteenth centuries. MR. BOYD
241. *Ancient Art*. A survey of Painting and Sculpture of the Prehistoric and Ancient periods, with particular emphasis on Egyptian, Greek, and Roman Art. MRS. WILKEMEYER
252. *Medieval Art*. A survey of Painting and Sculpture in Europe from 300 A.D. to 1400 A.D. MRS. WILKEMEYER
269. *Italian Renaissance Art*. A survey of Italian painting and sculpture from 1400 to 1600.
270. *Northern Renaissance Art*. A survey of painting in the Netherlands, Germany, France, and England from 1400 to 1600. MR. BOYD
272. *Baroque Art*. A survey of European painting and sculpture from 1600 to 1700.
281. *Modern Art to 1900*. A survey of European painting and sculpture from 1700 to 1900, emphasizing the nineteenth century. MRS. GRIFFIN
282. *Modern Art after 1900*. A survey of European and American painting and sculpture from 1900 to the present. P-Art 281. MRS. GRIFFIN
294. *Architecture Survey after 1700*. A survey of European and American architecture from 1700 to the present, emphasizing the twentieth century. MRS. GRIFFIN

ART STUDIO

- 111, 112. *Introduction to Painting*. A basic course in drawing and painting, in the media of charcoal, pastel, watercolor, acrylic, and oil. 111 is prerequisite for 112. MR. PROHASKA
- 201, 202. *Advanced Painting*. A course of independent study with faculty guidance. P-111, 112.

BIOLOGY

PROFESSORS ALLEN, COCKE, FLORY

ASSOCIATE PROFESSORS AMEN (Chairman), DIMMICK, ESCH,

MCDONALD, OLIVE, SULLIVAN, WYATT

ASSISTANT PROFESSORS BECKER, DIMOCK, KUHN, WEIGL

RESEARCH ASSOCIATE PHILLIPS

A major in Biology consists of seven semester courses plus one winter term course beyond the Introductory Course and must include Biology 151-152, Biology 391 and 393 or Biology 397, one from Biology 327, 328, 325, 338, and one from Biology

320, 321, 331, 333, 334. A minimum grade average of C on all full courses in Biology attempted is required for graduation. Prospective majors and other qualified students generally begin with Intermediate Biology. Other required semester courses for the major are four full courses in the physical sciences.

Advanced work in many areas of Biology may require additional full courses in mathematics, the physical sciences, and biology. The major advisor will call these to the attention of majors, depending on their individual needs. All 300 level semester courses presume a background equivalent to Introductory and Intermediate Biology, e.g. Biol. 111-112 and Biol. 151-152.

Highly qualified majors are invited by the Department to apply for admission to the Honors Program in Biology. They must meet certain preliminary requirements, earn a QPR of not less than 3.0 on all college work and 3.3 on all work in Biology, complete Biol. 391, 393 and pass a comprehensive oral examination. They are then graduated with the distinction "Honors in Biology." For additional information, members of the Biology staff should be consulted.

111-112. *Introductory Biology*. Fundamental ideas of the structure and activity of living systems. Lab — 3 hrs. 111 prerequisite for 112.

151-152. *Intermediate Biology*. Physiological, developmental, genetic and ecological principles common to a wide range of living systems, with emphasis on molecular and cellular aspects. Prerequisite or corequisite, one year of physical science. Lab — 3 hrs. 151 prerequisite for 152.

S301. *Biological Diversity*. A course for secondary school teachers designed to illustrate selected taxonomic and ecologic principles. Not for majors.

S302. *Biological Unity*. A course for secondary school teachers designed to illustrate important physiologic and genetic principles. Not for majors.

S305. *Teaching of Modern and Advanced Biology*. Cooperative project between the University and Public Schools. Participation limited to experienced teachers of Biology.

312. *Genetics*. A study of the principles of inheritance and their application to plants and animals, including man. Laboratory work in the methods of breeding some genetically important organisms and of compiling and presenting data. Lab — 3 hrs.

314. *Evolution*. Analysis of the theories, evidences, and mechanisms of evolution.

318. *Economic Botany*. A survey of the plant kingdom giving consideration to both the positive and negative importance of plants of all groups to man.
320. *Chordates*. A study of chordate animals with emphasis on comparative anatomy and phylogeny. Dissection of representative forms in the laboratory. Lab — 4 hrs.
321. *Parasitology*. A survey of protozoan, helminth, and arthropod parasites from the standpoint of morphology, taxonomy, life-histories, and host-parasite relationships. Lab — 4 hrs.
325. *Plant Anatomy*. A study of comparative anatomy of the vascular plants with emphasis on phylogeny and anatomical microtechniques. Lab — 4 hrs.
326. *Microorganisms*. A study of the more important groups of microorganisms, with emphasis on bacteria and their activities. Lab — 4 hrs.
327. *Non-vascular Plants*. An examination of representative non-vascular plants, with emphasis on morphology and phylogeny. Lab — 4 hrs.
328. *Vascular Plants*. A comparative survey of the vascular plants with emphasis on structure, reproduction, classification and phylogeny. Lab — 4 hrs.
331. *Invertebrates*. Systematic study of invertebrates with emphasis on functional morphology, behavior, ecology, and phylogeny. Lab — 3 hrs.
333. *Vertebrates*. Systematic study of vertebrates with emphasis on evolution, physiology, behavior, and ecology. Laboratory devoted to systematic, field, and experimental studies. Lab — 4 hrs.
334. *Entomology*. A study of insects with emphasis on structure, development, taxonomy, and phylogeny. Lab — 4 hrs.
338. *Plant Taxonomy*. A study of the classification of seed plants with emphasis on a comparative study of orders and families. Lab — 4 hrs.
340. *Ecology*. Inter-relationships among living systems and their environments. Structure and dynamics of major ecosystem types. Contemporary problems in ecology. Lab — 4 hrs.
341. *Marine Biology*. An introduction to the physical, chemical, and biological parameters affecting the distribution of marine organisms. Lab — 3 hrs.
351. *Physiology*. A study of the physiological activities of all types of organisms. Emphasis on intermediary metabolism and regulatory mechanisms. Lab — 4 hrs.
360. *Development*. A study of development including aspects of vertebrate, invertebrate, and other developmental systems emphasizing the regulation of differentiation. Lab — 4 hrs.
370. *Biochemistry*. A lecture and laboratory course in biochemistry, including principles of biochemistry, chemical composition of living systems, intermediary metabolism, enzyme kinetics, biochemical techniques, and biochemical energetics. Lab — 3 hrs.

Business and Accountancy

391, 393. *Special Problems in Biology*. ($\frac{1}{2}$ per sem.) Independent library and laboratory investigation carried out under the supervision of a member of the staff. Permission of the instructor required. Completion of both 391, 393 satisfies seminar requirement for the major.

397. *Seminar in Biology*. Consideration of major biological topics through intensive reading and discussions. Specific topics to be emphasized in any particular term will be listed in the schedule for that term. Satisfies the seminar requirement for a major.

COURSES FOR GRADUATE STUDENTS*

- 401-408. *Topics in Biology*
411, 412. *Directed Study in Biology*
420. *Genetics (Cytogenetics)*
430. *Invertebrate Zoology*
440. *Physiological Ecology*
450. *Cell Biology*
460. *Developmental Biology*
480. *Biosystematics*

BUSINESS AND ACCOUNTANCY

PROFESSORS HYLTON, OWEN, SCOTT

ASSOCIATE PROFESSOR COOK

INSTRUCTORS LUCKIE, FAULHABER

VISITING LECTURER NORMAN

General requirements for both the B.S. in Business and the B.S. in Accountancy.

For each degree, the student must make the following selections from these required course categories:

- (a) *from Natural Sciences and Mathematics*: at least one, preferably two courses must be selected from Mathematics; work in the computer area is encouraged.
- (b) *from the Social Sciences*: at least one course must be selected in the Economics Department.

The requirements for additional work in each degree are stated in the following descriptions:

* For course descriptions, see the *Graduate Bulletin*.

BUSINESS

For the major in Business, eight semester courses and one winter term course are required in the Department of Business and Accountancy. Required courses are: Accountancy 111 and 112; Business 211, 221, 231, 261, and 271 or 272.

The degree, B.S. in Business, is offered for the student who anticipates a career in the business world. The curriculum is designed to equip the student with basic tools and knowledge which should enable him to perform adequately in his first position and to advance to more responsible positions in the management hierarchy.

211. *Management Policy*. Explanation of the policies involved in the performance of the basic functions of planning, organizing, actuating, and controlling modern business organizations.

212. *Advanced Management*. A study of the techniques of decision making utilizing case analyses, problem-solving, and report writing procedures based on extensive readings. P-211.

221. *Marketing Management*. Survey of marketing concepts and behavior. Study of managerial decisions necessary in the distribution of goods and services.

222. *Marketing Decisions*. A study of the management of marketing activities, the interrelationship of these activities, and their relationship to the other functions of the firm. P-221.

231. *Financial Management*. Analysis of financial decision making at the level of the individual business enterprise. P-Accountancy 111.

232. *Advanced Financial Management*. Management decision-making applied to the financial function, including credit, investment, and related problems. P-231 and Accountancy 112.

241. *Labor Policy*. Theories of wage determination, employment, and income distribution with emphasis on labor units and the collective bargaining process. P-211.

261. *Legal Environment of Business*. Study of the legal environment within which business decisions must be made.

271. *Quantitative Seminar in Business*. Individual research and application of statistical and mathematical concepts in administrative decision making.

272. *Behavioral Seminar in Business*. Individual research and study of environmental factors influencing business decisions and operations.

281. *Reading and Research*. An advanced course devoted to individual reading and research in the field of Business. P-Permission of Instructor.

ACCOUNTANCY

The major in Accountancy requires ten semester courses and one winter term course in Accountancy and Business. Required courses are: Accountancy 111, 112, 151, 152, 252, 261, 271, and 273; Business 231, 261 and winter term income tax course.

The B.S. in Accountancy is offered to those students who expect to pursue a career in the accounting profession. The curriculum is designed to equip the student for staff and managerial positions in public accounting, industrial accounting, and similar positions in non-profit institutions. One who completes the B.S. in Accountancy is qualified to sit for the CPA examination in North Carolina.

It is recommended that the student interested in a career in accounting begin his accountancy study during his freshman year.

111. *Basic Financial Accounting.* The accounting equation and accounting cycle. Preparation and interpretation of financial statements.

112. *Basic Managerial Accounting.* Cost-profit-volume analysis, cost accounting concepts and capital budgeting. P-111.

151. *Intermediate Accounting.* A detailed analysis of theory and related problems for typical accounts on published financial statements. P-112.

152. *Intermediate Accounting.* Continuation of Accounting 151. P-151.

252. *Budgeting and Control.* Preparation and use of budget for control purposes, including extensive study of standard costs. P-112.

253. *Accounting Information Systems.* A study of functions performed by an adequate information system, and methods and procedures necessary to supply useful data. P-252.

261. *Advanced Accounting Problems.* A study of the more complex problems found in business operations-business combinations, reorganization, and dissolution. P-151.

271. *Income Tax Accounting.* Accounting for purposes of complying with the Internal Revenue Code. Preparation of personal and business tax returns. P-151.

273. *Auditing.* Designed to familiarize the student with the CPA profession, with particular emphasis on the attest function. P-152 and 252.

275. *CPA Review.* An intensive study of CPA-type problems found on the Accounting Practice and Accounting Theory sections of the CPA exam. P-252 and 261.

278. *Reading and Research.* Directed study in specialized areas of accountancy. P-Permission of Instructor.

CHEMISTRY

PROFESSORS NOWELL, P. J. HAMRICK, MILLER

ASSOCIATE PROFESSORS BAIRD, BLALOCK, GROSS

ASSISTANT PROFESSORS HEGSTROM, NOFTLE

The B. A. Degree in Chemistry must include Chemistry 111-112 or 118, 221-222, 341-342, 344, 361; Mathematics through 112; and Physics 111-112 or its equivalent.

The B. S. Degree in Chemistry must include Chemistry 111-112 or 118, 221-222, 341-342, 344, 361, 363-364, 371, 373; Mathematics through 112; and Physics 111-112 or its equivalent. Any student may substitute Chemistry 363-364 for the laboratory portion of Chemistry 221.

An average of C in the first two years of chemistry is required of students who elect to major in this Department. Admission to any class is contingent upon satisfactory grades in prerequisite courses, and registration for advanced courses must be approved by the Department.

The Department is on the list of departments certified by the American Chemical Society.

Prospective majors are urged to take the Physics 117—Chemistry 118 sequence in the freshman year. For B. S. majors the following schedule of chemistry and closely related courses is strongly recommended:

Freshman Year

Physics 117 — Chemistry 118
Mathematics 111-112

Junior Year

Chemistry 221-222
Chemistry 361
Chemistry 363-364
Physics 161-162

Sophomore Year

Chemistry 341-342 and 344
Mathematics 121-251

Senior Year

Chemistry 371
Chemistry, Mathematics or
Physics Electives

111, 112. *College Chemistry*. Fundamental chemical principles. Laboratory covers basic quantitative analysis. Lab — 3 hrs.

118. *Principles of Chemistry*. Fundamental chemical principles with emphasis on structural concepts. Laboratory work in basic quantitative analysis. A student receiving credit in either Chemistry 111 or Chemistry 112 may not have credit for this course. Lab — 4 hrs. P-Physics 117.

221. *Organic Chemistry*. Principles and reactions of organic chemistry. A student may substitute Chemistry 363-364 for the laboratory in this course. Lab — 4 hrs. P-112.

Chemistry

222. *Organic Chemistry*. Continuation of principles and reactions of organic chemistry. P-221.
- S301, S302. *Principles of Chemistry*. Further study of fundamental chemical principles. For public school teachers. Lab — 3 hrs. P-112.
- S305. *Introductory Organic Chemistry*. Introduction to principles and reactions of organic chemistry. For public school teachers. Lab — 3 hrs. P-112.
323. *Organic Analysis*. The systematic identification of organic compounds. Lab — 4 hrs. P-222.
324. *Chemical Synthesis*. ($\frac{1}{2}$ or 1). A library, conference and laboratory course. Lab — 4 or 8 hrs. P-222.
- 341, 342. *Physical Chemistry*. Fundamentals of physical chemistry. Lab — 3 hrs. P-112, Math 112; C-Physics 111-112 or 118.
344. *Physical-Analytical Laboratory*. ($\frac{1}{2}$). Lab — 8 hrs.
361. *Inorganic Chemistry*. Principles and reactions of inorganic chemistry. C-341.
- 363-364. *Inorganic-Organic Laboratory*. ($\frac{1}{2}$ per 2 sems.) A two-semester unified laboratory built upon the various techniques of synthesis, separation and identification. Lab — 4 hrs. C-221, 222, 361.
371. *Introductory Quantum Chemistry*. Application of quantum theory to topics in chemistry.
373. *Chemical Instrumentation*. A laboratory course in chemical instrumentation. Offered in winter term. P-112.
- 381, 382. *Chemistry Seminar*. Discussions of contemporary research. Attendance required of all graduate students and all chemistry majors. No credit.
- 391, 392. *Senior Research*. ($\frac{1}{2}$ per sem.) Library, conference and laboratory work. Lab — 6 hrs.

COURSES FOR GRADUATE STUDENTS*

- 421, 422. *Advanced Organic Chemistry*.
441. *Molecular Structure*.
445. *Thermodynamics*.
446. *Chemical Kinetics*.
447. *Chemical Bonding*.
462. *Advanced Inorganic Chemistry*.
- 491, 492. *Thesis Research*.

* For course descriptions, see the *Graduate Bulletin*.

CLASSICAL LANGUAGES AND LITERATURE

PROFESSORS EARP, C. V. HARRIS

ASSISTANT PROFESSORS ANDRONICA, HASH

INSTRUCTORS HEATLEY, TEMPLETON

The Department of Classical Languages offers two majors: a major in Greek and a major in Latin.

A major in Greek requires eight semester courses and a winter term course in the department beyond the elementary courses (111, 112). Seven of these semester courses must be in the Greek language.

For those who begin Latin at Wake Forest with the course 111 or 113, a major requires eight semester courses and a winter term course in the department beyond the elementary courses (111, 112, 113). Seven of these semester courses must be in the Latin language.

For those who begin with Latin 153 at Wake Forest a major requires eight semester courses and a winter term course in the department. Seven of these semester courses must be in the Latin language.

For those who begin with Latin 211 at Wake Forest a major requires seven semester courses and a winter term course in the department. Six of these semester courses must be in the Latin language.

Teacher certification. The requirements for certification to teach Latin in high school are the same as the requirements for a major in Latin.

Highly qualified Latin or Greek majors are considered by the Department of Classical Languages for admission to the honors program in Latin or Greek. To be graduated with the designation of "Honors in Latin" or "Honors in Greek", the student must earn a QPR of not less than 3.0 on all college work and 3.3 on all work in Latin and Greek, complete an honors research project and pass an oral comprehensive examination. At least two of the semester courses counted toward the major must be seminar courses.

I

GREEK LANGUAGE AND LITERATURE

- 111, 112. *Elementary Greek*. Greek grammar; selections from Greek prose writers and poets.
153. *Intermediate Greek*. Grammar and Xenophon's *Anabasis*. Thorough drill in syntax.
211. *Plato*. Selections from the dialogues of Plato.
212. *Homer*. Selections from the *Iliad* and *Odyssey*.
- 221, 222. *Selected Readings*. Intensive reading courses designed to meet individual needs and interests.
231. *The Greek New Testament*. Selections from the Greek New Testament.
241. *Greek Tragedy*. Euripides: *Medea*. This course will include a study of the origin and history of Greek tragedy, with collateral reading of selected tragedies in translation. *Seminar*.
242. *Greek Comedy*. Aristophanes: *Clouds*. This course will include a study of the origin and history of Greek comedy, with collateral reading of selected comedies in translation. *Seminar*.
- 291-292. *Honors in Greek*. (½ per sem.) Directed research for honors paper.

II

LATIN LANGUAGE AND LITERATURE

- 111, 112. *Elementary Latin*. Introduction to Latin grammar.
113. *Elementary Latin*. Introduction to Latin grammar. Not open to students who have had Latin 111 or 112.
153. *Intermediate Latin*. Grammar review and selected readings.
211. *Vergil*. Intensive readings from the *Aeneid*, with emphasis on literary values.
212. *Roman Historians*. A reading of the works of Sallust and Livy, with attention to historical milieu and the norms of ancient historiography. Fall semester.
- V213. *Selections from Sallust and Catullus*. This course will be given in Venice during the fall term 1971 and the spring term 1972. It may be substituted for any other course in Latin.
216. *Roman Lyric Poetry*. An interpretation and evaluation of lyric poetry through readings from a wide variety of the poems of Catullus and Horace. Spring semester.
221. *Tacitus*. A reading and critical analysis of the works of Tacitus.

225. *Roman Epistolography*. Selected readings from the correspondence of Cicero and Pliny the Younger and the literary epistles of Horace and Ovid.
226. *Roman Comedy*. Reading of selected comedies of Plautus and Terence with a study of literary values and dramatic techniques.
241. *Satire*. Selected readings from Lucilius, Horace and Juvenal. Attention will be given to the origin and development of the genre. *Seminar*.
242. *Satire*. Readings from Petronius and the *Ludus de Morte Claudii*. *Seminar*.
243. *Latin Readings*. A course designed to meet individual needs and interests.
250. *Prose Composition*.
261. *Lucretius*. Readings from the *De Rerum Natura*, with attention to literary values and philosophical import.
262. *Cicero*. Readings from Cicero's philosophical essays, together with a survey of Greek Philosophical antecedents.
265. *The Elegiac Poets*. Readings of Tibullus, Propertius, and Ovid, along with the study of the elegiac tradition. *Seminar*.
- 291-92. *Honors in Latin*. (1/2 per sem.) Directed research for honors paper.

III CLASSICS

253. *Greek Epic Poetry in Translation*. Oral epic poetry with primary emphasis on the *Iliad* and the *Odyssey* of Homer and the later development of the genre. Offered Fall 1972 and alternate years thereafter.
254. *Roman Epic Poetry in Translation*. A study of the Latin treatment and development of the literary form, with emphasis on Lucretius, Vergil, Ovid, and Lucan. Offered spring 1973 and alternate years thereafter.
- V254. *Roman Epic Poetry in Translation*. A study of the Latin treatment and development of the literary form, with emphasis on Lucretius, Vergil, Ovid and Lucan. Offered in Venice, fall term of 1971 and spring term, 1972.
263. *Tragic Drama in Translation*. A study of the origins and development of Greek tragedy and its influence on Roman writers, with readings from Aeschylus, Sophocles, and Euripides. Offered fall 1971 and alternate years thereafter.
264. *Greek and Roman Comedy in Translation*. Representative works of Aristophanes, Menander, Plautus, and Terence, with attention to the origins and development of comedy. Offered spring 1972 and alternate years thereafter.

265. *A Survey of Greek Literature in Translation.* A study of selections from Greek literature in English translation. A knowledge of the Greek language is not required.

270. *Greek Civilization.* Lectures and collateral reading upon those phases of Greek civilization which have particular significance for the modern world. A knowledge of the Greek language is not required.

271. *Roman Civilization.* This course consists of lectures and collateral reading upon the general subject of Rome's contributions to the modern world. A knowledge of the Latin language is not required.

V271. *Roman Civilization.* Lectures and collateral readings. A knowledge of the Latin is not required. Given at Venice fall term 1971 and spring term 1972. Trips to various Roman sites. This course will not be considered a repetition of Latin 271.

272. *A Survey of Latin Literature in Translation.* A study of selections from Latin literature in English translation. A knowledge of the Latin language is not required.

ECONOMICS

ASSOCIATE PROFESSOR WAGSTAFF

ASSISTANT PROFESSORS CAGE, HIMAN, MOORHOUSE

The objectives of the economics program at Wake Forest University are to help prepare students for effective participation in the decision-making processes of society, to develop analytical skills in solving economic problems, to promote a better understanding of alternative economic systems, and to provide a balanced curriculum that will prepare students for graduate study or positions in industry and government.

The major in Economics requires 8 semester courses and one winter term course in the field of Economics, including Economics 151, 152, 201, and 202.* The remaining courses for a major in Economics and courses in related fields are selected by the students and the Economics advisor.

Highly qualified majors in Economics may be considered for admission to the honors program in Economics. Such candidates must meet certain preliminary requirements, earn a QPR of not less than 3.0 on all college work and 3.3 on all work in Economics, complete a satisfactory economics research project, and pass a comprehensive oral examination on such project, and complete Economics 281 or 287 and Economics 288. They

* Economics 111 will satisfy the requirement for Economics 151 and 152 by permission of the department.

are then graduated with the designation of "Honors in Economics."

111. *Introduction to Economic Analysis*. A one semester survey of the discipline. Elementary supply and demand analysis is considered in addition to more general topics involving the formation of national economic policy. Credit not granted for this course and Economics 151 or 152.

151. *Principles of Economics*. A study of individual economic units in a market economy with some attention given to monopoly, labor unions, and poverty.

152. *Principles of Economics*. Attention is focused on the functioning of the economy as a whole with particular reference to unemployment, inflation, economic growth and policy. P-151.

201. *Microeconomic Theory*. Develops the theory of consumer behavior and the theory of the firm with emphasis on price and output determination under various market conditions. P-151, 152.

202. *Macroeconomic Theory*. A study of Keynesian and post-Keynesian theories about the determination of the level of national income, employment and economic growth. P-151, 152.

203. *Introduction to Econometrics*. Economic analysis through quantitative methods, with emphasis on model construction and empirical research.

221. *Public Finance*. An examination of the economic behavior of government. Includes principles of taxation, spending, borrowing, and debt management. P-151, 152.

222. *Monetary Theory and Policy*. A rigorous development of the theory of supply and demand for money plus the inter-relationship among prices, interest rates, and aggregate output. P-151, 152.

242. *Labor Economics*. Theories of wage determination, employment, and income distribution and the economic roles of unions and government in the labor market. P-151, 152.

244. *Industrial Organization*. An analysis of market structure with particular reference to organization practices, price formation, efficiency, and public regulation. P-151, 152.

251. *International Economics*. A study of international trade theory, balance of payments, foreign exchange, trade restrictions and commercial policies. P-151, 152.

252. *Economics of Underdeveloped Areas*. A study of the peculiar problems of economic growth in the underdeveloped countries of the world, including assistance programs of the more developed countries and international agencies. P-151, 152.

255. *Comparative Economic Systems*. An objective examination of the theory and practices of various economic systems, including capitalism, socialism, and communism. P-151, 152.

Education

256. *Regional Economics*. Analysis of the spatial distribution of economic activity with special attention given to the economic structure of urban areas. P-151, 152.
261. *American Economic Development*. The application of economic theory to problems and issues in American economic progress. P-151, 152.
262. *History of Economic Thought*. A historical survey of the main developments in economic thought from the biblical period to the twentieth century. P-151, 152.
281. *Contemporary Economic Problems*. An economic analysis of current issues, with emphasis placed upon the research that precedes policy formation. P-151, 152.
287. *Senior Readings*. A student-faculty seminar in which selected publications are analyzed and discussed. Admission by permission of the Department.
288. *Economic Research*. Independent study and research supervised by a member of the economics staff. P-201, 202.

EDUCATION

PROFESSORS PARKER, MEMORY, PRESEREN

ASSOCIATE PROFESSORS ELMORE, HALL, REEVES, SYME

ASSISTANT PROFESSOR HOOD

Ordinarily, teacher education students major in the academic area in which they plan to teach. Only students planning to be certificated in the broad areas of Science or Social Studies are permitted to major in Education. A major in Education requires five semester courses in Education and the courses listed as academic requirements for the Science or Social Studies certificate.

Institutional Policy. The University recognizes that the educational profession is important to society and that the welfare of mankind is largely determined by the quality of educational leadership. One of the major objectives of Wake Forest University has been and continues to be the preparation of teachers and other professional school personnel. This commitment was reemphasized by vote of the faculty on November 18, 1963.

Wake Forest is committed to a high quality teacher education program, as evinced by selective admission to the program; a wide range of approved courses of professional instruction; and

a closely supervised practicum suitable to the professional needs of the students.

In addition to the professional program, the Department of Education provides elective courses open to all students, including those not in teacher education programs. Such courses supplement the work of other departments and provide generally for the liberal education of all students.

Teacher Certification. The North Carolina State Department of Public Instruction issues the Professional Class A teacher's certificate to graduates of the University who have completed an Approved Program, including the specified courses in their teaching field(s) and the prescribed courses in Education, and who receive recommendations from the designated official(s) of their teaching area(s) and from the Chairman of the Department of Education.

Special students not completing an Approved Program are required to secure an analysis of their deficiencies for the Class A certificate from the Division of Teacher Education of the North Carolina State Department of Public Instruction. The Wake Forest Department of Education will then plan a program to remove these deficiencies.

Certification requirements for other states should be secured from the State Department of Public Instruction in the state where certification is sought. The Wake Forest Department of Education will then assist in planning a program to meet certification requirements of that state.

Admission Requirements. Admission to the teacher education program occurs normally during the sophomore year. Admission involves filing an official application with the Department of Education, being screened by a faculty committee, and being officially approved by the Department of Education.

Course Requirements. Junior standing is a general prerequisite for all courses in Education. Psychology 151 and Speech 151 are recommended electives.

The Approved Program of Teacher Education requires candidates to complete successfully Education 201, 211, 251, 291, and 331. Education 201 is taken prior to the other required courses. The remaining work in the teacher education program

is taken simultaneously during one semester of the senior year, according to availability of programs.

While enrolled in the block semester, the student will not be allowed to take courses concurrently that would interfere with being in an assigned student teaching situation for the regular public school day (generally 8:00 a.m. to 3:45 p.m.) nor allowed to take more than one course occurring outside the regular school day.

Student Teaching. Prerequisites for registering for Student Teaching include:

1. Senior or graduate standing or classification as a graduate-level special student.
2. A grade average of at least C on all courses taken at Wake Forest.
3. A grade average of at least C on all courses taken in the area of certification or, in case of two or more fields of certification, in each of the areas.
4. Approval for admission to the Teacher Education Program.
5. Successful completion of Education 201.
6. Approval by a Student Teaching Screening Committee.

Students are assigned to Student Teaching opportunities on the basis of available positions and professional needs of the students. The University does not assume the responsibility for transportation to the schools during Student Teaching.

ACADEMIC REQUIREMENTS

English—8 semester courses, including: one course numbered 160-175; 323; 390; and at least four additional semester courses numbered 300-399. One winter term course in English.

French—8 semester courses and 1 winter term, including French 151, 152, 215, 221, 222, 224, or their equivalents; at least 2 courses in literature beyond 215.

German—8 semester courses, including German 153, 211, 212; 2 courses chosen from German 217, 218, 219, 220; at least 3 courses in literature beyond 212.

Latin—Based on 2 high school units, 9 courses in the Department of Classics, 7 of which must be in the Latin language.

Spanish—8 semester courses and 1 winter term, including Spanish 151, 152, 215, 221, 223, or their equivalents; 2 courses chosen from 224, 225, 226, and at least 1 course in literature beyond 215.

Mathematics—9 semester courses and 1 winter term course, including Mathematics 111, 112, 121, 221, 231, 332, and at least 2 other 300-level courses.

Music—15 courses plus 1 winter term, including 5 courses in applied music (including a keyboard proficiency equivalent to Piano 124a). For further information consult the Music Department section of this catalog or the chairman of the Music Department.

Physical Education and Health—9 courses, including 220, 221, 222, 224, 252, 353, 357, 360, and 363, and Biology 111 and 112.

Science—11½ to 13 semester courses, consisting of 2 semester courses each in Biology, Chemistry, Physics and Mathematics, plus additional courses in Biology (4 courses), or Chemistry (5 courses), or Physics (3½ courses).

Biology—6 semester courses.

Chemistry—7½ semester courses including the first year of Chemistry.

Physics—5½ semester courses.

Social Studies—12 courses, including 6 courses in History with at least 2 courses in U. S. History and 2 courses in World (European) History; 5 courses from Politics, Sociology, Anthropology, or Economics with no more than 2 courses in any one area; and a course in Geography.

Economics—6 courses.

Government—6 courses.

History—6 courses with at least 2 courses in U. S. History and 2 courses in World (European) History.

Sociology—6 courses.

Speech—10 courses, including 121, 151, 161, 231, 252, and 261.

REQUIRED COURSES

These courses are required for a teaching certificate.

201. *Foundations of Education*. Philosophical, historical, and sociological foundations of education including analysis of contemporary issues and problems.

211. *Educational Psychology*. General principles of adolescent development. The nature, theories, processes, and conditions of effective teaching-learning. Appraising and directing learning. Internship. P-201.

251. *Student Teaching*. Observation and experience in school-related activities. Supervised student teaching. Graded "Pass-Fail". For requirements and prerequisites see page 98. P-201.

Education

291. *Methods and Materials.* Methods, materials, and techniques used in teaching the various subjects. P-201.

Teaching of English, each term.

Teaching of Foreign Languages, fall term.

Teaching of Health and Physical Education, spring term.

Teaching of Mathematics, spring term.

Teaching of Music, spring term.

Teaching of Science, fall term.

Teaching of Social Studies, each term.

Teaching of Speech, spring term.

331. *The School and Teaching.* Organization of the school system. Bases of education. The curriculum. Major problems of education and teaching. The role of the teacher. Psychological aspects of teaching P-201.

ELECTIVE COURSES

271. *Introduction to Geography.* A study of the physical environment and its relationship to man, including an examination of climate, vegetation, soils, water resources and land forms found in various regions throughout the world.

301. *Audiovisual Education.* Introduction to the field of audiovisual education, development and application of skills in the use of instructional materials, equipment, and programs.

302. *Production of Instructional Materials.* Methods of producing instructional materials and other technological techniques. P-301.

303. *History of European Education.* A study of educational theory and practice from classical Greece through modern Europe, stressing the writers who have contributed to western educational thought.

304. *History of American Education.* A study of education in the United States from Colonial days to the present, with special focus on the social forces which have influenced American educational thought.

313. *Human Growth and Development.* Theories of childhood and adolescent development and their educational implications physically, intellectually, emotionally, socially, and morally.

321. *Educational Statistics and Measurement.* Statistical and quantitative procedures as applied to educational measurement, evaluation, and research.

341. *Principles of Counseling and Guidance.* Counseling history, philosophy, theory, procedure, and process. Therapeutic and developmental counseling approaches in guidance and personnel work in educational, social, business, and community service agencies.

COURSES FOR GRADUATE STUDENTS*

- 405. *Sociology of Education.*
- 407. *Philosophy of Education.*
- 413. *Psychology of Learning.*
- 421. *Educational Research.*
- 431. *Foundation of Curriculum Development.*
- 433. *Supervision of Instruction.*
- 435. *Organization and Administration of Education.*
- 441. *Theories and Models of Counseling.*
- 442. *Group Procedures in Counseling.*
- 443. *Vocational Psychology.*
- 445. *Counseling Laboratory and Internship.*
- 451, 452. *Administrative Internship.*
- 461. *Student Personnel Work and Higher Education.*
- 462. *Dimensions of College Student Development.*
- 483. *Readings and Research in Education.*
- 491, 492. *Thesis Research.*

ENGLISH

PROFESSORS GOSSETT, PHILLIPS, WILSON

VISITING PROFESSOR HTIN AUNG

ASSOCIATE PROFESSORS D. A. BROWN, CARTER (Chairman),

FOSSO, KENION, L. POTTER, SHORTER

ASSISTANT PROFESSORS DRAKE, LOVETT, MILNER, RAYNOR

INSTRUCTORS BONNETTE, DERVIN, FAULHABER, JOHNSON,

McCASKEY, MEYER, J. POTTER, SPEAR, WRIGHT

LECTURER SHAW

The prerequisite for admission to all advanced courses in English is any one of the courses in English and American literature numbered 160-175. 100-level courses are offered each semester.

The major in English requires a minimum of eight semester courses, at least six of which must be numbered 300-399, and one winter term in the junior or senior year. Of the advanced

* For course descriptions, see the Graduate *Bulletin*.

courses, one must be Shakespeare and an additional one must be in English literature before 1750 (courses numbered 300-339); two must be in English literature after 1750 (courses numbered 340-369); and one must be in American literature (courses numbered 370-385). The advanced courses must also include one from three of the following four groups: I. (courses 315, 325, 350, 354, 362, 367, 376); II. (courses 335, 353, 357, 365, 380); III. (courses 310, 330, 343, 360, 372, 374, 382); IV. (courses 320, 332, 364, 369, 378). Every course numbered 300-385 satisfies two required categories. Course 386 may be substituted in satisfaction of appropriate requirements. One course must be a seminar: each semester the department will designate which courses will be offered as seminars.

Highly qualified English majors are considered by the department for admission to the honors program in English. To be graduated with the designation of "Honors in English," they must earn a QPR of not less than 3.0 on all college work and 3.3 on all work in English, complete satisfactorily the requirements for English majors, and in addition complete the requirements for English 388.

11. *Composition Review*.* Essentials of standard usage and the basic principles of composition; frequent exercises. No credit. STAFF

110. *English Composition*.† Training in expository writing; frequent essays based upon readings in literature. STAFF

160. *Survey of Major British Writers*. Eight to ten writers representing different periods and genres; primarily lecture. STAFF

165. *Studies in Major British Writers*. Three to five writers representing different periods; primarily discussion, with frequent short papers. Limited enrollment. STAFF

170. *Survey of Major American Writers*. Nine to eleven writers representing different periods and genres; primarily lecture. STAFF

175. *Studies in Major American Writers*. Three to five writers representing different periods; primarily discussion, with frequent short papers. Limited enrollment. STAFF

* Proficiency in the use of the English language is recognized by the Faculty as a requirement in all departments. A composition condition, indicated by cc under the grade for any course, may be assigned in any department to a student whose writing is unsatisfactory, regardless of previous credits in composition. Also the composition of all rising juniors, both Wake Forest students and transfers, is examined for proficiency. The writing of Wake Forest students is checked during their last course in sophomore English; that of transfers is checked during the orientation period each fall. For removal of a composition condition the student is required to take English 11 during the first semester for which he registers following the assignment of the cc. Since English 11 is not taught in the summer terms, a summer school student needing to remove a composition condition may repeat English 110 without credit. Removal of the deficiency is prerequisite to graduation.

† Prerequisite for all other courses in English unless the composition requirement is waived.

JOURNALISM AND WRITING

270. *Introduction to Journalism*. Survey of the fundamental principles of news-gathering and news-writing; study of news and news values, with some attention to representative newspapers. MR. SHAW

272. *Editing*. A laboratory course in copy-editing, headline-writing, typography, and make-up; includes both newspaper and magazine editing. P-270. MR. SHAW

276. *Advanced Journalism*. Intensive practice in writing various types of newspaper stories, including the feature article. Limited to students planning careers in journalism. P-270. MR. SHAW

278. *History of Journalism*. A study of the development of American journalism and its English origin; detailed investigations of representative world papers. MR. SHAW

284. *The Essay*. Primarily for those interested in writing for publication, with concentration on writing various types of essays. Admission by consent of the instructor. MR. SHAW

286. *The Short Story*. A study of the fundamental principles of short fiction writing; constant practice in writing, extensive study of short story form. Admission by consent of the instructor. MR. SHAW

ADVANCED COURSES IN LITERATURE AND LANGUAGE*

310. *Introduction to Medieval Literature*. Important works, exclusive of Chaucer. Consideration of literary genres, themes, religious and philosophical background. (A) MR. SHORTER

315. *Chaucer*. Emphasis on *The Canterbury Tales* and *Troilus and Criseyde*, with some attention to long minor poems. Consideration of literary, social, religious and philosophical background. MR. SHORTER

320. *English Drama to 1642*. English drama from its beginnings to 1642, excluding Shakespeare. Representative Cycle plays, Moralities, Elizabethan and Jacobean tragedies, comedies, and tragi-comedies. (A) MR. BONNETTE

323. *Shakespeare*. Twelve representative plays illustrating Shakespeare's development as a poet and dramatist. MR. FOSSO

325. *Renaissance and Seventeenth Century*. Selected prose and poetry, 1500-1660, exclusive of Milton. Emphasis on Spenser and Donne, cultural backgrounds and stylistic transformations. (A) MR. FOSSO

* Courses marked (A) are normally offered in alternate years.

330. *English Literature 1660-1745*. Representative works studied against the social and intellectual background. Emphasis upon Dryden, Addison, Steele, Swift, Defoe, Pope and the comic dramatists of the Restoration. MR. KENTON
332. *Satire*. The nature of the satiric form and the satiric spirit as revealed through reading and critical analysis of significant examples, mostly English and American. (A) MR. KENION
335. *Eighteenth Century Fiction*. Primarily the fiction of Defoe, Richardson, Fielding, Smollett, Sterne, and Austen. MR. LOVETT
343. *English Literature, 1745-1800*. Emphasis upon the personalities and writings of Johnson, Boswell, Goldsmith and Burns. Consideration of the classical heritage and of trends from classic to romantic. MR. BROWN
350. *Romantic Poets*. A review of the beginnings of romanticism in English literature, followed by study of Wordsworth, Coleridge, Byron, Keats, and Shelley; collateral reading in the prose of the period. MR. WILSON
353. *The Nineteenth Century English Novel*. Representative major works by Dickens, Eliot, Thackeray, Hardy, the Brontes, and others. Lectures and discussion. MR. CARTER
354. *Major Victorian Poets*. Representative poems by Tennyson, Brown-ing, and Arnold. Lectures, discussion, and papers. MR. DRAKE
357. *Autobiography in the Victorian Novel*. Study of the autobiographical technique in Dickens, Thackeray, Eliot, Charlotte Bronte and Meredith. (A) MR. DRAKE
360. *Literature and Culture in the Nineteenth Century*. The influence of social change, religious controversy and scientific theory upon prose, fiction and poetry. (A) MR. CARTER
362. *Blake, Yeats, and Thomas*. Reading and critical analysis of the poetry of Blake, Yeats, and Dylan Thomas; study of the plays of Yeats and his contemporaries in the Irish Renaissance, especially Synge and Lady Gregory. (A) MR. WILSON
364. *Literary Criticism*. Review of the beginnings of literary criticism, followed by a study of the principal twentieth century critical approaches to literature. (A) MR. POTTER
365. *Twentieth Century English Novelists*. A study of Conrad, Lawrence, Joyce, Forster, Woolf and later English novelists with attention to the social and intellectual background. MR. POTTER
367. *Twentieth Century Poetry*. Selected American and British poets from 1900 to 1965. MISS PHILLIPS
369. *Modern Drama*. Modern drama from its late nineteenth century naturalist beginnings to the contemporary existentialist-absurdist theater. MR. BONNETTE
372. *The American Renaissance*. Writers of the mid-nineteenth century including Emerson, Thoreau, Hawthorne and Melville. MR. MEYER

374. *Intellectual and Social Movements in American Literature to 1865.* Selected topics such as Puritanism, the Enlightenment, Transcendentalism, and romanticism to be focused on the mid-nineteenth century. (A)

MR. MEYER

376. *American Poetry from 1855 to 1900.* The poetry of Whitman, Melville, Dickinson and Stephen Crane. (A)

MISS PHILLIPS

378. *Literature of the South.* The aesthetic, philosophical, and sociological dimensions of the best literature of the South, from the colonial to the contemporary period. Writers to include the regional humorists, Faulkner, Ransom and Williams.

MR. MILNER

380. *American Fiction from 1865 to 1915.* To include such writers as Twain, James, Howells, Crane, Dreiser, Wharton, and Cather. (A)

MR. GOSSETT

382. *Intellectual and Social Movements in American Literature since 1915.* Selected topics such as naturalism, the novel of World War I, Freudianism, Marxism, existentialism.

MR. GOSSETT

386. *Directed Reading.* A tutorial in an area of study not otherwise provided by the English department; granted upon departmental approval of petition presented by a qualified student.

STAFF

388. *Honors Course in English.* A conference course centering upon a special reading requirement and a thesis requirement. For senior students wishing to graduate with "Honors in English."

MR. POTTER

390. *The Structure of English.* An introduction to the principles and techniques of structural linguistics applied to contemporary American English.

MISS MCCASKEY

COURSES FOR GRADUATE STUDENTS*

(Note: Not every course listed in this section will be given every year, but at least four will be offered each regular academic year, and normally two will be offered in the summer session.)

415. *Studies in Chaucer.* MR. SHORTER

419. *English Drama, 1580-1642.*

421. *Studies in Spenser.* MR. FOSSO

425. *Studies in Seventeenth Century English Literature.* MR. FOSSO

435. *The Major Augustans.* MR. KENION

437. *Studies in Later Eighteenth Century Poetry.* MR. BROWN

443. *The Nineteenth Century English Novel.* MR. CARTER

* For course descriptions, see the *Graduate Bulletin*.

German

444. *English Poetry of the Nineteenth and Twentieth Centuries.* MR. WILSON
455. *Studies in American Fiction.* MR. GOSSETT
457. *American Poetry.* MISS PHILLIPS
491, 492. *Thesis Research.*

FINE ARTS

(See Interdepartmental courses at end of course listings.)

GERMAN

PROFESSORS FRASER, O'FLAHERTY

ASSOCIATE PROFESSOR SANDERS

ASSISTANT PROFESSORS SELLNER, WEST

INSTRUCTOR PLACE

A major in German requires eight semester courses and one winter term course beyond German 111-112, and must include 281 and 285.

Highly qualified German majors are considered by the Department for admission to the honors program in German. They must meet certain preliminary requirements, participate in at least one senior seminar at this institution, earn a QPR of not less than 3.0 on all college work and 3.3 on all work in German, complete a senior research project and pass a comprehensive examination. They are then graduated with the designation of "Honors in German."

Attention is called to the exchange program which Wake Forest University maintains with the Free University of Berlin (see page 40).

111, 112. *Elementary German.* This course covers the principles of grammar and pronunciation, and includes the reading of simple texts. Lab — 1 hr.

152. *Intermediate German.* The principles of grammar are reviewed; reading of selected prose and poetry. *Open only to students who have completed three years of high school German.*

153. *Intermediate German.* The principles of grammar are reviewed; reading of selected prose and poetry. P-111, 112.

- 211, 212. *Introduction to German Literature*. The object of this course is to acquaint the student with masterpieces of German literature. Parallel readings and reports. P-152 or 153.
217. *Conversation and Phonetics*. A course in spoke German emphasizing facility of expression. Considerable attention is devoted to phonetics. P-152 or 153 or equivalent.
218. *Composition and Grammar Review*. A review of the fundamentals of German grammar, with intensive practice in translation and composition. P-152 or 153 or equivalent.
219. *Advanced Composition*. A study of advanced grammar and composition. English texts will be translated into German in addition to free composition in German. P-218 or equivalent.
220. *German Civilization*. A survey of contemporary German culture, including a study of its historical development in broad outline. The course is conducted in German. P-217 or consent of instructor.
249. *Old High German and Middle High German Literature*. The study of major writers and works from these two areas emphasizes major writings of the chivalric period. P-211, 212 or equivalent.
250. *Renaissance, Reformation and Baroque German Literature*. A study of major writers and works from the post-chivalric period to approximately 1700. P-211, 212 or equivalent.
253. *Eighteenth Century German Literature*. A study of major writers and works of the Enlightenment and *Sturm und Drang*. P-211, 212 or equivalent.
263. *German Literature of the Nineteenth Century (I)*. Poetry, prose, dramas and critical works from approximately 1795 to 1848. P-211, 212 or equivalent.
264. *German Literature of the Nineteenth Century (II)*. Readings from the beginnings of Poetic Realism to the advent of Naturalism. P-211, 212 or equivalent.
270. *Directed Readings in German Literature*. Studies in literature not ordinarily read in other courses. Open only to majors with at least four courses of German beyond 212. Participation with consent of Chairman.
281. *Seminar: Twentieth Century Prose*. Intensive study of certain works by Thomas Mann, Hesse, and Kafka, plus considerable outside reading. P-211, 212 or equivalent.
285. *Seminar: Goethe. Faust* Part I will be studied in class. Parallel readings in other works by Goethe will be assigned. P-211, 212 or equivalent.
288. *Honors Course in German*. A conference course in German literature. A major research paper is required. Designed for candidates for departmental honors.

HISTORY

PROFESSORS COVEY, GOKHALE, PERRY, SMILEY, STROUPE,

LOWELL R. TILLET, YEARNs

VISITING PROFESSOR TATE

ASSOCIATE PROFESSORS BARNETT (Chairman), BERTHRONG,

HENDRICKS, McDOWELL, MULLEN, ZUBER

ASSISTANT PROFESSORS BAREFIELD, J. H. SMITH

INSTRUCTORS HADLEY, PLATTE, SINCLAIR, VAN METER

The Bachelor of Arts degree is awarded to students who complete the requirements for the bachelor's degree as stated elsewhere in this catalog and take their major in History. The History major consists of eight semester courses and one winter term. It must include History 381, two courses in U. S. history, two courses in European history and one course in non-western history. One course in the major must be taken as a seminar. No more than two courses from History 111, 112, 113 may be counted toward the major.

Highly qualified History majors are considered by the department for admission to the honors program in History. They must meet certain preliminary requirements, earn a QPR of not less than 3.0 on all college work and 3.3 on all work in History, complete satisfactorily History 287, 288, and pass a comprehensive written examination. They are then graduated with the designation of "Honors in History." For additional information consult members of the History staff.

Students contemplating graduate study should plan to take required and general survey courses early in their college careers, should include the course in Historiography, and should acquire a reading knowledge of one modern foreign language (preferably French, German or Russian) for the M.A. degree and two for the Ph.D. degree. For information regarding the Master of Arts degree in History at Wake Forest University consult the Bulletin of the Graduate School.

111. *Europe from the Renaissance to 1789.* A survey. STAFF

112. *Europe from 1789 to 1914.* A survey. STAFF

113. *Europe and the Twentieth Century World.* A survey from 1914 to the present. STAFF

- 151, 152. *The United States*. Political, social, economic, and intellectual aspects. 151: before 1865; 152: after 1865. STAFF
211. *Seminar*. Offered by members of the staff on topics of their choice. STAFF
- 215, 216. *The Ancient World*. Critical focus on the Greeks in the fall, and Romans in the spring, but in global context of paleolithic to medieval; psychological-philosophical stress. MR. COVEY
222. *The Renaissance and Reformation*. Europe from 1300 to 1600. Social, cultural, and intellectual developments stressed. (Not offered 1971-72). MR. BAREFIELD
240. *Afro-American History*. The role of Afro-Americans in the development of the United States with particular attention to African heritage, forced migration, Americanization, and influence. MR. SMITH
264. *Economic History of the United States*. The economic development of the United States from colonial beginnings to the present. MR. PERRY
265. *American Diplomatic History*. An introduction to the history of American diplomacy since 1776, emphasizing the effects of public opinion on fundamental policies. MR. PERRY
271. *Colonial Latin America, 1492-1825*. Cultural configurational approach. MR. COVEY
- 287, 288. *Honors Course in History*. A two-semester sequence of seminars on problems of historical synthesis and interpretation. Designed for seniors who are candidates for distinction in history. STAFF
- 311, 312. *Social and Intellectual History of Modern Europe*. Intellectual trends in Western European Civilization. Fall: seventeen and eighteenth centuries; spring: nineteenth and twentieth centuries. MR. BERTHRONG
315. *The Middle Ages*. A survey of European history, 400-1300, stressing social and cultural developments. MR. BAREFIELD
316. *France and England in the Twelfth and Thirteenth Centuries*. The structure of society, the nature of law, church-state relations, intellectual developments. P-315 or permission of instructor. MR. BAREFIELD
- 319, 320. *Germany*. Fall: origins of the German nation and the rise of Prussia in a context of particularism. Spring: from the Reich of Bismarck to divided Germany. MR. McDOWELL
- 323, 324. *England*. A political and social survey, with some attention to continental movements. Fall: to 1603; spring: 1603 to present. MESSRS. BARNETT, HADLEY
325. *Tudor and Early Stuart England*. A constitutional and social study of England from 1485 to 1641. (Not offered 1971-72) MR. BARNETT
- 329, 330. *Modern England*. Political, social, economic, and cultural history of England since 1714. Fall: to 1815; spring: since 1815. MR. HADLEY

History

331, 332. *Russia*. Primarily political, with some attention to cultural and social developments. Fall: the Russian Empire; spring: the Soviet Union. MR. TILLET

333. *European Diplomatic History, 1848-1914*. Research-discussion seminar, with emphasis on topics from the Bismarck era. MR. MULLEN

335, 336. *Twentieth Century Europe*. Emphasis on international questions and the changing position of Europe in the world. Fall: 1914 to 1939; spring: 1939 to the present. MR. McDOWELL

341, 342. *History and Civilization of Southeast Asia*. From the earliest times to the present; special attention to religion, social organization, economy, literature, art, and architecture. (Not offered 1971-72).

MR. GOKHALE

343. *Imperial China*. Development of traditional institutions in Chinese society to 1644; attention to social, cultural and political factors, emphasizing continuity and resistance to change. (Not offered 1971-72).

MR. SINCLAIR

344. *Modern China*. Manchu Dynasty and its response to the Western challenge; 1911 Revolution; warlord era and rise of the Communists; Chinese Communist society; cultural Revolution. (Not offered 1971-72).

MR. SINCLAIR

345, 346. *History and Civilization of South Asia*. An introduction to the history and civilization of South Asia. Emphasis on historical developments in the social, economic, and cultural life.

MR. GOKHALE

347. *India and the West*. Interactions between the British and Indians in the context of changes in Indian society, economy, politics and culture.

MR. GOKHALE

348. *Themes in Indian Civilization*. Historical evolution of Indian ideas on history, social behavior, economic goals, power problems, individual's role, war and non-violence and salvation theories.

MR. GOKHALE

349, 350. *East Asia*. An introduction to the social, cultural and political development of China, Japan, and Korea. Fall: to 1600; spring: since 1600.

MR. SINCLAIR

351, 352. *Social and Intellectual History of the United States*. The relationship between ideas and society. Religion, science, education, architecture and immigration are among the topics discussed.

MR. ZUBER

353. *Colonial English America, 1582-1774*. Determinative episodes, figures, allegiances, apperceptions, and results of the period, organically considered.

MR. COVEY

354. *Revolutionary and Early National America 1763-1820*. The American Revolution, its causes and effects, the Confederation, the Constitution, and the new nation.

MR. HENDRICKS

355. *The Westward Movement*. The role of the frontier in United States history, 1763-1890. (Not offered 1971-72).

MR. SMILEY

356. *Jacksonian America, 1820-1850.* The United States in the age of Jackson, Clay, Calhoun and Webster. A biographical approach.

MR. HENDRICKS

357. *The Civil War and Reconstruction.* The political and military events of the war and the economic, social, and political readjustments which followed.

MR. YEARNs

358. *U. S. from Reconstruction to World War I.* National progress and problems during an era of rapid industrialization.

MR. YEARNs

359. *Recent American History I.* From the Populist Era to the "Roaring-Twenties," including reform movements, imperialism, progressivism, and World War I.

MR. SMITH

360. *Recent American History II.* From the "Roaring-Twenties" to contemporary times, including the Great Depression, the New Deal, World War II and post-war developments.

MR. SMITH

362. *American Constitutional History.* Origins of the constitution, the controversies involving the nature of the union, and constitutional readjustments to meet the new American industrialism.

MR. YEARNs

363, 364. *The South.* Geography, population elements, basic institutions, and selected events.

MR. SMILEY

367, 368. *North Carolina.* Selected phases of the development of North Carolina from colonial beginnings to the present. Fall: to 1789; spring: since 1789.

MR. STROUPE

381. *Historical Methods and Research.* For History majors. Orientation in historical methodology, instruction in the bibliographical tools, and individual research and writing.

STAFF

391, 392. *Historiography.* The principal historians and their writings from ancient times to the present. Fall: European historiography; spring: American historiography.

MR. PERRY

COURSES FOR GRADUATE STUDENTS*

411, 412. *Seminar in Modern European History.* MR. TILLET

442. *Seminar in Southeast Asia.* MR. GOKHALE

445. *Traditional India.* MR. GOKHALE

447. *Seminar on Modern India.* MR. GOKHALE

451, 452. *Seminar in United States History.* MR. SMILEY

463, 464. *American Foundations.* A survey of the European heritage and colonial environment which developed into the American culture of the late eighteenth and early nineteenth centuries. A cooperative program of Wake Forest University, Old

* For course descriptions, see the *Graduate Bulletin*.

Mathematics

Salem, and Reynolda House, Inc. Lectures provide a continuity of theme, while Old Salem and other historic sites provide opportunities for giving history a visual dimension. A research project is required. *Summer.* MR. COVEY, STAFF

481, 482. *Directed Reading.* STAFF

491, 492. *Thesis Research.* STAFF

HUMANITIES

(See Interdepartmental courses at end of course listings.)

MATHEMATICS

PROFESSORS GENTRY, SAWYER, SEELBINDER

VISITING PROFESSOR BRAUER

ASSOCIATE PROFESSORS GAY, GAYLORD MAY, GRAHAM MAY,
WADDILL

ASSISTANT PROFESSORS BAXLEY, HOWARD, FRANK L. SCOTT,
WALKER

INSTRUCTOR DAVID L. HALL

A major in mathematics requires nine semester courses and one winter term course.

A student must include courses 111, 112, 121, 211, 221 and at least three 300-level courses in his major. A prospective teacher in the education block may substitute 231 for 211.

Highly qualified Mathematics majors are considered by the Department for admission to the honors program in Mathematics. They must meet certain preliminary requirements, earn a QPR of not less than 3.0 on all college work and 3.3 on all work in Mathematics, complete satisfactorily a senior research paper and pass a comprehensive oral and written examination. They are then graduated with the designation of "Honors in Mathematics." For additional information consult members of the Mathematics staff.

105. *Pre-Calculus Mathematics.* Selected topics deal with the structure of number systems and the elementary functions. *Not to be counted on major in Mathematics.*

111, 112. *Calculus with Analytic Geometry I, II.* Differential and integral calculus and the basic concepts of analytic geometry. No student will be allowed credit for both 116 and 111. Lab. — 2 hrs.

- 115, 116. *Finite Mathematics with Calculus I, II.* Logic, sets, probability matrices, linear programming, markov chains, theory of games and concepts from differential and integral calculus. No student will be allowed credit for both 116 and 111. Lab — 2 hrs.
121. *Linear Algebra.* Vectors and vector spaces, linear transformations and matrices, linear groups and determinants.
155. *Introduction to Fortran Programming.* ($\frac{1}{2}$ per sem.) Basic FORTRAN programming. Lecture and laboratory $\frac{1}{2}$ semester. Graded on Pass/Fail basis. Lab — 2 hrs.
157. *Elementary Probability and Statistics.* Probability and distribution functions; means and variances; sampling distributions. One who takes this course may not receive credit for Soc. 380.
211. *Advanced Calculus I.* Limits and continuity, differentiation and integration, implicit and inverse function theorems. P-121.
221. *Modern Algebra I.* An introduction to modern abstract algebra through the study of groups, rings, integral domain and fields. P-121.
231. *Euclidean Geometry.* Postulates, definitions, theorems and models of Euclidean geometry.
233. *Elementary Topology.* Topology in metric spaces. Continuity, compactness, sequences, uniform convergence, applications to analysis.
251. *Ordinary Differential Equations.* Linear equations with constant coefficients, linear equations with variable coefficients, existence and uniqueness theorems for first order equations. P-112.
253. *Operations Research.* Mathematical models and optimization techniques. Studies in allocation, simulation, queuing, scheduling and network analysis. P-111, P-115 or equivalent.
256. *Programming Languages.* FORTRAN IV, COBOL, and Assembly languages. Advanced computer techniques. P-Mathematics 155 or equivalent.
- 301S. *Basic Concepts of Algebra for Teachers.* Number systems and elementary mathematical structures. *Not for credit toward the M.A. degree in Mathematics.*
- 302S. *Basic Concepts of Geometry for Teachers.* Euclidean Geometry with a brief introduction to non-Euclidean geometries. *Not for credit toward the M.A. degree in Mathematics.*
311. *Advanced Calculus II.* Sequences and series, uniform convergence, the Stieltjes integral, power series and Fourier series. P-211.
317. *Complex Analysis I.* Analytic functions, Cauchy's theorem and its consequences, power series and residue calculus. P-211.
322. *Modern Algebra II.* A continuation of modern abstract algebra through the study of additional properties of groups and fields and a thorough treatment of vector spaces. P-221.

Mathematics

323, 324. *Matrix Theory I, II*. Basic concepts and theorems concerning matrices and real number functions defined on preferred sets of matrices. P-121.

332. *Non-Euclidean Geometry*. Postulates, definitions, theorems, and models of Lobachevskian and Riemannian geometry.

333. *General Topology I*. An axiomatic development of topological spaces. Includes continuity, connectedness, compactness, separation axioms and metric spaces.

345, 346. *Elementary Theory of Numbers I, II*. Properties of integers, congruences, arithmetic functions, primitive roots, sums of squares, magic squares, applications to elementary mathematics, quadratic residues, arithmetic theory of continued fractions.

348. *Combinatorial Analysis*. Enumeration techniques, including generating functions, recurrence formulas, the principle of inclusion and exclusion, and Polya's theorem. P-221.

351, 352. *Applied Analysis*. Vector analysis, complex variables, infinite series, Fourier integrals, Laplace transforms, partial differential equations, calculus of variations.

355. *Numerical Analysis*. A computer-oriented study of analytical methods in mathematics. Lecture and laboratory. P-112 and 155W or 155. 251 recommended.

357, 358. *Mathematical Statistics I, II*. Probability distributions, mathematical expectation, sampling distributions, estimation and testing of hypotheses, regression, correlation and analysis of variance. P-112.

381. *Independent Study*. ($\frac{1}{2}$ per sem.) Library and conference work.

COURSES FOR GRADUATE STUDENTS*

411, 412. *Real Analysis*.

415, 416. *Seminar in Analysis*.

418. *Complex Analysis II*.

421, 422. *Abstract Algebra*.

423, 424. *Seminar on Theory of Matrices*.

425, 426. *Seminar in Algebra*.

433. *General Topology II*.

435, 436. *Seminar on Topology*.

437, 438. *Seminar on Geometry*.

445, 446. *Seminar on Number Theory*.

491, 492. *Thesis Research*.

* For course descriptions, see the *Graduate Bulletin*.

MILITARY SCIENCE

COLONEL JOSEPH H. HOFFMAN, JR., *Professor*
 MAJOR ADAM S. GILMOUR, *Assistant Professor*
 CAPTAIN OLIVER B. INGRAM, JR., *Assistant Professor*
 CAPTAIN NORMAN R. JONES, *Assistant Professor*
 CAPTAIN WESTFORD D. WARNER, *Assistant Professor*
 SERGEANT MAJOR WILHELM O. RETER, *Assistant*
 MASTER SERGEANT CHARLES E. NORTON, *Assistant*
 STAFF SERGEANT SIDNEY H. MIXON, *Assistant*
 STAFF SERGEANT KENNETH B. POOLE, *Assistant*

111, 112. *First Year Basic.* ($\frac{1}{2}$ per 2 sems.) The role, organization and management of national defense; introduction to basic military skills and leadership. Academic subject also required.* Lab — $1\frac{1}{4}$ hrs.

151, 152. *Second Year Basic.* ($\frac{1}{2}$ per 2 sems.) American military history; methods of geographic location and reference; introduction to basic tactics; leadership application. P-111, 112. Lab — $1\frac{1}{4}$ hrs.

211, 212. *First Year Advanced.* ($\frac{1}{2}$ per sem.) Leadership techniques; military teaching principles; small unit tactics and communications; advanced leadership application. Academic subject also required.* P-151, 152. Lab — $1\frac{1}{4}$ hrs.

251, 252. *Second Year Advanced.* ($\frac{1}{2}$ per sem.) Military operations, logistics, administration, and law; active duty orientation; supervision of Leadership Laboratory program. Academic subject also required.* P-211, 212. Lab — $1\frac{1}{4}$ hrs.

MUSIC

PROFESSOR T. McDONALD
 ASSOCIATE PROFESSORS HUBER (Chairman), P. S. ROBINSON
 ASSISTANT PROFESSOR GILES
 INSTRUCTOR C. W. SMITH
 PART-TIME INSTRUCTORS L. S. HARRIS, FELMET, RAPER
 ARTIST IN RESIDENCE KALTER

The major in Music requires ten semester courses, one winter term in the junior or senior year, one Education seminar in Music Literature, and four semesters of ensemble. The major will include: 155, 156, 157, 158, 213, 214 (in winter term), 233;

* One academic subject, to be approved in advance by the Professor of Military Science, is required for the freshman, junior, and senior years. This subject, either elective or required by the University, will be one which furthers the professional qualifications of the student as a prospective officer in the United States Army.

a music elective from among the following: 217, 225, 227, 228, 230, 237, 238, or 281; applied music 121-122 (one-half course per year), 123-124 (one-half course per semester), 221-222 (one-half course per semester), 223 or 224 (one-half course per semester), and Education 297. Music majors must take twenty-four and one-half courses in other departments.

Students wishing to be certified to teach music in the public schools will need the following additional courses: Music 235, Education 291 and 295, Brass and Percussion 121a, Woodwinds 121a, Strings 121a, and Voice 121a, and 5 other courses in Education. In addition, the student must be able to demonstrate a keyboard proficiency equivalent to Piano 124a.

Students specializing in church music will need the following additional courses: Education 295, Music 230 and 231.

Music Majors are required to attend all faculty and student recitals. Presentation of a public recital is also required.

Highly qualified majors may be considered by the department for admission to the honors program in music. A student must have earned a QPR of not less than 3.0 on all college work and 3.3 on all work in this department. He may elect one of the following to complete the requirement in honors: (1) complete a senior research paper; (2) compose a large work for orchestra, band, chorus, piano, organ, or voice, and present it in a public performance; (3) present a lecture that will include an analysis of the music to be performed on the senior recital, and prepare two works independently, one to be performed on the senior recital.

MUSIC THEORY

101. *Fundamentals.* Music terminology, scales, keys, intervals, chords, rhythms, abbreviations, smaller forms. Primarily for students not majoring in music.

155. *Theory I.* Ear training, sight singing, keyboard harmony. Tonal relations, primary triads, and inversions. Consonant diatonic harmonies of the major and minor modes. Lecture and laboratory sections. Lab — 2 hrs.

156. *Theory II.* Continuation of Theory I. Ear training, sight singing, keyboard harmony. Introduction to dissonance, seventh chords and inversions, accessory tones. Lecture and laboratory sections. P-155. Lab — 2 hrs.

157. *Theory III*. Continuation of Theory II. Tonicization, modulation, modal alterations. Lecture and laboratory sections. P-156. Lab — 1 hr.
158. *Theory IV*. Continuation of Theory III. Chromatic harmony, harmonic practices of nineteenth and twentieth century composers. Lecture and laboratory sections. P-157. Lab — 1 hr.
213. *Counterpoint*. Basic voice-leading in the five species of counterpoint involving two to four voices in both strict and free styles. P-158.
214. *Form and Analysis*. The harmonic and contrapuntal materials in small and large forms, with practical composition in some of the forms. P-213.
217. *Introduction to Twelve-Tone Composition*. A study of the devices of serial composition and their application in creative composition both in small and large forms. P-158.
235. *Scoring for Orchestra and Band*. A study of Instrumentation and scoring for the orchestra and band that includes practical experience in scoring. P-158.

MUSIC LITERATURE

102. *Music Appreciation*. Open to all students desiring a fuller understanding of music.
225. *Twentieth Century Music*. A survey of the major musical styles, genre, and media of contemporary music from Debussy to the present.
226. *Jazz*. A history of the half-century of Jazz in America, its trends, and influences.
227. *Opera*. A study of the major operatic works from Gluck to the present. (Offered in alternate years.)
228. *The Romantic Symphony*. A study of the major symphonic compositions from Beethoven and Schubert through Tschaikovsky and Mahler. (Offered in alternate years.)
230. *Seminary in Church Music*. A survey of the great oratorios, cantatas, anthems, hymns, and organ compositions of the church, with emphasis on their proper liturgical setting.
231. *Music in the Church*. Function of the church musician and the relationship of his work to the overall church program.
233. *Music History*. Survey of the history, literature, and meaning of music, aiming to stimulate intelligent hearing and understanding of music.
237. *Bach and Handel*. A study of the major musical compositions of the two great masters of the late Baroque. (Offered in alternate years.)
238. *Beethoven*. An introduction to the music of Beethoven; a study of the relationship to his predecessors and contemporaries and his influence on the music of the nineteenth century (Offered in alternate years.)
281. *Honors in Music*. Independent study for highly qualified students who wish to graduate "with Honors in Music."

MUSIC EDUCATION

291. Education—*Teaching of Music*. Teaching and supervision of choral and instrumental music in the public schools, grades 1-12. P-158.

295. Education—*Conducting*. Principles of choral and instrumental conducting as they relate to teaching music in the schools. P-158.

297. Education—*Music Literature Seminar*. An examination of teaching materials from the standard repertory in the student's special area of interest. Advanced standing. Three class meetings and one tutorial hour per week. Tutorial fee.

ENSEMBLE

Departmental ensembles are open to all students. Credit is earned on the basis of one-half course for two semesters of participation.

109, 110. *Orchestra*. Study and performance of orchestral works from the classical and contemporary repertory.

111, 121. *Choir*. Study and performance of sacred and secular choral literature. Chapel Choir membership by audition; Touring Choir selected from the Chapel Choir.

113, 114. *Band. Concert Band*: Study and performance of the standard band repertory in regular campus and public appearances including an annual tour. Membership by audition.

Varsity Band: For students lacking experience, proficiency, or time to participate in the Concert Band.

Marching Deacons Band: Performs for most of the football games and rehearses during the first half of the fall semester at the Concert Band time.

115, 116. *Accompanying*. Study of the elements of accompanying through class discussion and studio experience.

APPLIED MUSIC

Applied music courses are open to all college students with the consent of the instructor. Credit is earned on the basis of class time and weekly preparation: one-half course per year implies a half-hour of instruction weekly and a minimum of one hour of daily practice; one course per year (one-half course per semester) implies an hour of instruction weekly and a minimum of two hours of daily practice.

Piano 121a-124a. *Class Piano*. (½ per 2 sems.) Scales, chords, inversions, appropriate standard literature with emphasis on sight-reading, harmonization, simple transposition. Designed for the beginning piano student. Applied music fee.

Piano 121, 122. Bach, *Two-Part Inventions*; Beethoven, *Sonata, Op. 14, No. 1*; Chopin, *Prelude, Op. 28, No. 17*. Applied music fee.

Piano 123, 124. Bach, *Sinfonia*; Beethoven, *Sonata, Op. 10, No. 1*; Chopin, *Etude, Op. 10, No. 9*. Applied music fee.

Piano 221, 222. Bach, *Well Tempered Clavier*; Beethoven, *Sonata, Op. 27, No. 1*; Brahms, *Intermezzo, Op. 118, No. 2*. Applied music fee.

Piano 223, 224. Bach, *English Suites*; Beethoven, *Sonata, Op. 31, No. 2*; Copland, *Passacaglia*. Applied music fee.

Organ 121, 122. Manual and pedal technique; clarity in contrapuntal playing; Bach's *Eight Little Preludes and Fugues*; hymn playing. Applied music fee.

Organ 123, 124. Pedal scales; smaller preludes and fugues of Bach; chorale preludes; simple works of more modern composers; hymn playing. Applied music fee.

Organ 221, 222. More difficult Bach preludes and fugues and chorale preludes; selected works by Mendelssohn, Franck, etc. Applied music fee.

Organ 223, 224. Larger preludes and fugues of Bach; trio sonatas; selected modern composers of all schools: Widor, Vierne, Dupre, etc. Applied music fee.

Voice 121a. *Voice Class*. ($\frac{1}{2}$ per 2 sems.) Fundamentals of singing designed to develop the full range and resonant quality of the voice. Applied music fee.

Voice 121, 122. Establishment of correct breathing and pronunciation habits. Early Italian and English songs. Applied music fee.

Voice 123, 124. Moderately difficult arias of the Classic period and early Romantic art songs. Participation in student recitals. Applied music fee.

Voice 221, 222. More difficult Classic arias, moderately difficult art songs and arias of the Romantic period in original languages. Participation in student recitals, oratorio, and music drama. Applied music fee.

Voice 223, 224. Attention to developing individual style and interpretation. More difficult songs and arias of all periods in original language. Applied music fee.

Orchestra and Band Instruments 121, 122; 123, 124; 221, 222; 223, 224. Studies of progressive difficulty (for Flute, Clarinet, Oboe, Bassoon, Saxophone, Trumpet, French Horn, Trombone, Euphonium, Tuba, Violin, Viola, Cello, Double Bass, or Percussion) covering tone production, scales, transpositions, technical studies, solo and ensemble repertory, and band and orchestral literature. Applied music fee.

Brass and Percussion 121a. *Brass and Percussion Instruments Class*. ($\frac{1}{2}$ per sem.) Fundamentals of playing and teaching brass and percussion instruments. Applied music fee.

Philosophy

Strings 121a. *String Instruments Class.* ($\frac{1}{2}$ per sem.) Fundamentals of playing and teaching all instruments of the string family. Applied music fee.

Woodwinds 121a. *Woodwind Instruments Class.* ($\frac{1}{2}$ per sem.) Fundamentals of playing and teaching all principal instruments of the woodwind family. Applied music fee.

PHILOSOPHY

PROFESSOR HELM

ASSOCIATE PROFESSORS HESTER, PRITCHARD (Chairman)

ASSISTANT PROFESSORS LEWIS, VORSTEG

A major in philosophy requires eight semester courses and one winter term course. The semester courses must include 161 and 261, two courses from the history sequence (201, 211, 222), and one course from each of the following A(230, 231, 241, 242), B(279, 285, 287), C(294, 295).

The Spilman Philosophy Seminar, open to advanced students in philosophy, was established in 1934 through an endowment provided by Dr. Bernard W. Spilman. The income from the endowment is used for the seminar library, which now contains about 4,000 volumes. Additional support for the library and other departmental activities is provided by the A. C. Reid Philosophy Fund, which was established in 1960 by friends of the Department. The furniture in the library and seminar room was donated in honor of Mr. Claude Roebuck and Mr. and Mrs. W. A. Hough by their families.

Two distinguished alumni of the College have made possible the establishment of a lectureship and a seminar. The late Guy T. Carswell of Charlotte, North Carolina, has endowed the Guy T. and Clara Carswell Philosophy Lectureship, and a gift from Mr. James Montgomery Hester of Long Beach, California, has established the James Montgomery Hester Philosophy Seminar. In addition, a lectureship bearing his name has been instituted in honor of Mr. Claude V. Roebuck.

The Department invites highly qualified majors to apply for admission to its honors program. In order to graduate with "Honors in Philosophy," the candidate must complete a satisfactory senior research paper for Philosophy 299 and pass an examination, which may be oral or written or both, on the paper

and selected subjects; in addition the candidate must attain a QPR of not less than 3.0 on all college work and 3.3 on all work in philosophy.

151. *Basic Problems of Philosophy*. An examination of the basic concepts of several representative philosophers, including their accounts of the nature of knowledge, man, God, mind, and matter.

161. *Logic*. An elementary study of the laws of valid inference, recognition of fallacies, and logical analysis.

171, 172. *Meaning and Value in Western Thought*. A critical survey of religious and philosophical ideas in the Western World from antiquity to modern times. (Either 171 or 172 will satisfy the philosophy or religion requirement. Both 171 and 172 will satisfy both the philosophy and religion requirements. Choices will be determined at registration.)

201. *Ancient and Medieval Philosophy*. A survey of major philosophers from the Presocratics to the late Medieval Scholastics. P-151 or 171 or 172.

211. *Modern Philosophy*. A survey of major philosophers from Descartes to Nietzsche. P-151 or 171 or 172.

222. *Contemporary Philosophy*. A survey of major philosophers from Russell to Sartre. P-151 or 171 or 172.

230. *Plato*. A detailed analysis of selected dialogues covering Plato's most important contributions to ethics, metaphysics, theory of knowledge, and theology. P-151 or 171 or 172.

231. *Aristotle*. A study of the major texts, with emphasis on metaphysics, ethics, and theory of knowledge. P-151 or 171 or 172.

241. *Kant*. A detailed study of selected works covering Kant's most important contributions to theory of knowledge, metaphysics, ethics, and religion. P-151 or 171 or 172.

242. *Hegel*. An examination of metaphysics, logic, epistemology, ethics, and philosophy of history in Hegel's major works. P-151 or 171 or 172.

261. *Ethics*. A critical study of selected problems and representative works in ethical theory. P-151 or 171 or 172.

279. *Philosophy of Science*. A systematic exploration of the conceptual foundations of scientific thought and procedure. P-151 or 171 or 172.

285. *Philosophy of Art*. A critical examination of several philosophies of art, with emphasis upon the application of these theories to particular works of art. P-151 or 171 or 172.

287. *Philosophy of Religion*. A systematic analysis of the logical structure of religious language and belief, including an examination of religious experience, mysticism, revelation, and arguments for the nature and existence of God. P-151 or 171 or 172.

290. *Readings in Philosophy*. A discussion of several important works in philosophy or closely related areas. P-151 or 171 or 172.

294. *Seminar in Epistemological Problems.* A senior course requiring a major research paper. P-151 or 171 or 172.

295. *Seminar in Metaphysical Problems.* A senior course requiring a major research paper. P-151 or 171 or 172.

297, 298. *Seminar: Advanced Problems in Philosophy.* Senior courses treating selected topics in philosophy. P-151 or 171 or 172.

299. *Honors.* Directed research for honors paper.

PHYSICAL EDUCATION

PROFESSOR BARROW

ASSISTANT PROFESSORS CASE, CASEY, CRISP, ELLISON,
HOTTINGER, POLLOCK, RHEA

INSTRUCTORS CAGE, CLOUGHERTY, STARK

The purpose of the Department of Physical Education is to organize, administer and supervise the following programs: (1) REQUIRED PHYSICAL EDUCATION PROGRAM consisting of conditioning activities, varied team and individual sports, special corrective and remedial instruction to all students with physical problems according to the individual's need, and to teach some basic information on posture and body mechanics, physiological principles, and practical health facts which must be observed to maintain a state of health and physical fitness. (2) INTRA-MURAL SPORTS PROGRAM which allows all students to participate and specialize in sports which will be of lifelong benefit. (3) SUPERVISED RECREATION PROGRAM consisting of varied recreational and leisure time activities. (4) PROFESSIONAL CURRICULUM PROGRAM which will offer the necessary training for those interested in the fields of Health, Physical Education, Recreation and Athletic Coaching.

REQUIRED PHYSICAL EDUCATION

Physical Education 111 and 112 are required of all freshmen and transfer students who have not complied with this requirement. For those men enrolled in ROTC Physical Education 111 and 112 requirement may be postponed until the sophomore year but must be completed by the end of that second year of attendance in Wake Forest University. *Not more than four semesters of required or elective physical education may be counted toward graduation.*

111, 112. *Physical Education*. ($\frac{1}{2}$ per 2 sems.) A basic course consisting of body mechanics, basic health and physiological principles, dance, exercise and sports designed to develop fundamental skills. Students' needs and interests will be met through controlled election of activities based upon standardized proficiency examination and/or previous experiences.

111, 112. *Physical Education (Special)*. ($\frac{1}{2}$ per 2 sems.) A course consisting of remedial instruction or limited activity for students with special problems, handicaps or medical excuses.

ELECTIVE PHYSICAL EDUCATION

For those students who wish to specialize in sports activities beyond the requirement, a varied sports program is offered. Any two of the courses listed below may be elected for $\frac{1}{2}$ course credit toward graduation. Prerequisite, Physical Education 111-112.

Hours to be arranged

- | | |
|---|--|
| 159. Beginning Golf | 168. Life Saving; Water Safety
Inst. Course |
| 160. Intermediate Golf | 169. Weight Training and
Conditioning |
| 161. Beginning Tennis | 170. Handball; Squash Racquets |
| 162. Techniques of Dance Movement | 172. Water Ballet; Synchronized
Swimming |
| 163. Contemporary Dance | 173. Conditioning; Body
Mechanics |
| 164. Gymnastics | 174. Intermediate Tennis |
| 165. Beginning Bowling | 175. Intermediate Bowling |
| 166. Beginning and Inter-
mediate Swimming | |
| 167. Advanced Swimming;
Beginning Scuba | |

COURSES FOR MAJOR STUDENTS

Students desiring to elect a major in Physical Education and Health and to satisfy the state requirements for a teaching certificate must be of Junior Standing. Biology 111 and 112 will be required and the following 9 courses in Physical Education: 221, 222, 224, 251, 252, 253, 357, 360, and 363. Course 220 will also be required as a part of the winter term.

Physical Education majors with superior records are considered by the department for admission to the honors program in Physical Education. These students must meet certain criteria which have been established by the department, earn a

QPR of at least 3.0 on all college work and 3.3 on all courses required for the major in Physical Education, participate satisfactorily in Physical Education 381, and pass a comprehensive written examination. Upon satisfactory completion of these requirements, they will be recommended for graduation with "Honors in Physical Education."

Physical Education major students who are considering graduate study should take course 381 as an elective. Education 291 is to be taken by students completing requirements for a teaching certificate.

211. *Foundations of Health and Physical Fitness.* A presentation of the physiological, psychological, and sociological foundations of personal health and physical fitness.

220. *Methods and Materials in Aquatics, Recreational Sports and Games.* Presentation of knowledge, skill and methods of teaching aquatics, recreational sports, and games of low organization.

221. *Methods and Materials in Gymnastics and Dance.* Presentation of knowledge, skill and methods of teaching gymnastics, dance, conditioning, and weight training.

222. *Methods and Materials in Teaching and Coaching Team Sports.* Presentation of knowledge, skill, and methods of teaching, coaching, and officiating team sports.

224. *Methods and Materials in Team and Individual Sports.* Theory and practice in organization and teaching of selected team and individual sports included in a comprehensive physical education program.

251. *Principles and Administration of Physical Education.* A general introductory course and orientation into physical education; a study of the organization and administration of its programs.

252. *Anatomy and Physiology.* A course to provide students of physical education with a functional knowledge of the anatomic structure and physiologic function of the human body.

353. *Physiology of Exercise.* This course presents the many effects of muscular activity on the processes of the body which constitute the scientific basis of Physical Education.

357. *Kinesiology and Adapted Physical Education.* A study of the principles of human motion based on anatomical, physiological and mechanical principles, and the application of these principles along with other special considerations in developing a program for the atypical student.

360. *Seminar in Physical Education.* A reading and research seminar for majors in physical education.

363. *Personal and Community Health and Safety Education.* A course presenting personal, family, and community health problems; a study of first aid, safety in the schools and treatment of athletic injuries.

371. *Motor Learning and Performance.* Motor skill learning and performance are analyzed on the basis of psychological principles and concepts, with special reference to the nature of learning, characteristics of the learner and management of the learning environment.

372. *Motor Behavior in Early Childhood.* A study of the psychomotor and perceptual motor development and behavior of children.

381. *Research in Physical Education.* A study of the nature and purpose of research, and the methods and techniques used in its procedures. Standards are emphasized with respect to selecting, defining, and analyzing potential problems and preparing bibliographies and writing up research.

382. *Independent Study in Health and Physical Education.* Library conferences and laboratory research performed on an individual basis.

PHYSICS

PROFESSORS TURNER, BREHME, HAVEN, SHIELDS,

G. P. WILLIAMS, JR.

ASSISTANT PROFESSOR KERR

The program of courses for each student majoring in Physics will be determined through consultations with the student's major adviser.

In addition to the courses prescribed by the College, the requirements for a B.S. Degree with a major in Physics are:

1. Seven semester courses beyond introductory physics (Phys. 111-112 or Phys. 117), and one course in the winter term in the Department of Physics.

2. Two courses in the Department of Chemistry, or Chemistry 118.

3. Mathematics 251 (Differential Equations).

No student may be a candidate for a degree with a major in Physics unless he earns a grade of C or better in General Physics or is given special permission by the staff. A typical semester schedule is as follows:

Physics

Freshman Year

Physics 111, 112
Mathematics 111, 112
Language (2 courses)*
General Requirement (2 courses)
Physical Education ($\frac{1}{2}$ course)

Sophomore Year

Physics 161, 162
Mathematics 251
General Requirements (5 courses)

Junior Year

Physics 343, 344
Physics 345, 346
General Requirements (3 courses)
Electives (2 courses)

Senior Year

Physics 311, 312
Electives (6 courses)

Highly qualified Physics majors are considered by the Department for admission to the honors program in Physics. They must meet certain preliminary requirements, complete satisfactorily Physics 381 and pass a comprehensive written examination. They are then graduated with the designation of "Honors in Physics." For additional information consult members of the Physics staff.

101, 102. *Natural Philosophy*. A study of the history, philosophy and social impact of the physical sciences.

105. *Descriptive Astronomy*. An introductory study of the universe, from the solar system to the galaxies.

111, 112. *General Physics*. The basic course, without calculus, for freshmen and sophomores. Lab — 2 hrs.

117. *Principles of Physics*. An introductory course for students in science and mathematics. Calculus is a corequisite. Credit is not allowed for both Physics 111-112 and Physics 117. Lab — 3 hrs.

161. *Introductory Mechanics*. The fundamental principles of mechanics. P-111 or 117, and Mathematics 111; or equivalent: Lab — 3 hrs.

162. *Introductory Electricity*. The fundamental principles of electricity, magnetism and electromagnetic radiation. P-161, or equivalent. Lab — 3 hrs.

230. *Electronics*. Introduction to the theory and application of transistors and electronic circuits. P-162, or equivalent. Lab — 3 hrs.

301, 302. *Advanced General Physics*. A course designed for science teachers. Credit is not allowed for graduate students in the department of Physics. Lab — 2 hrs.

311. *Mechanics*. A senior level treatment of analytic classical mechanics. P-161, Mathematics 251.

312. *Electromagnetic Theory*. A senior level treatment of classical electromagnetic theory. P-162, Mathematics 251.

* French, German or Russian is preferred.

343, 344. *Modern Physics*. Application of the elementary principles of quantum mechanics to atomic and molecular physics.

345, 346. *Modern Physics Laboratory*. ($\frac{1}{2}$ per sem.) The laboratory associated with Physics 343, 344. Lab — 3 hrs.

351. *Theormodynamics and Statistical Mechanics*. Introduction to classical and statistical thermodynamics and distribution functions.

352. *Physical Optics and Spectra*. A study of physical optics and the quantum treatment of spectra.

381. *Research*. Library, conference and laboratory work performed on an individual basis.

COURSES FOR GRADUATE STUDENTS*

412. *Classical Mechanics*.

413. *Electromagnetism*.

441, 442. *Quantum Mechanics*.

452. *Solid State Physics*

455. *Magnetic Properties of Solids*.

456. *Seminar on Defects in the Solid State*.

461. *Nuclear Physics*.

470. *Statistical Mechanics*.

480. *Theory of Relativity*.

485. *Seminar in Theoretical Physics*.

491, 492. *Thesis Research*.

POLITICAL SCIENCE

PROFESSOR RICHARDS

PROFESSOR OF ASIAN STUDIES GOKHALE

ASSOCIATE PROFESSORS FLEER (Chairman), MOSES,

SCHOONMAKER, STEINTRAGER

ASSISTANT PROFESSORS BROYLES, REINHARDT, SEARS,

THORNTON

In its broadest conception, the aim of the study of politics is to understand the way in which policy for a society is formulated and executed, and to understand the moral standards by

* For course descriptions, see the *Graduate Bulletin*.

which policy is or ought to be set. This center of interest is often described alternatively as the study of power, of government, of the state, or of human relations in their political context. For teaching purposes, the study of politics has been divided by the Department into the following fields: 1) political philosophy, 2) comparative politics, 3) American politics, and 4) international politics. Introductory courses in the first three of these fields provide broad and flexible approaches to studying political life.

Department Requirements for Major. The major in political science shall consist of eight semester courses and one winter term course which must include the following:

- a. A first course selected from:
Political Science 111. *Introduction to Politics:*
Political Theory
Political Science 112. *Introduction to Politics:*
Comparative Politics
Political Science 113. *Introduction to Politics:*
American Politics
- b. Any one introductory or advanced course in each of the four fields of the discipline. These courses must be restricted to non-seminar courses.
- c. One seminar in political science. Normally, a student will take no more than one seminar in each field and no more than three seminars overall.

Honors in Political Science. Highly qualified Political Science majors are considered by the Department for admission to the honors program in political science. They must meet certain preliminary requirements, earn a QPR of not less than 3.0 in all college work and 3.3 on all work in Political Science, successfully complete Political Science 283, 284 and two seminar courses, and pass a comprehensive examination on a research project and selected bibliography recommended by the Department.

Social Science Division Requirement. A student who selects Political Science to fulfill the social science division requirement must take one of the following for the first course: Political Science 111, 112, or 113. The second course may be selected from any course in the Department.

INTRODUCTORY COURSES

A student must take one of the following as the first course in the Department. More than one may be taken. The order in which they are taken is immaterial.

111. *Introduction to Politics: Political Theory*. Major systematic statements of the rules and principles of political life. Representative writers: Tocqueville, Dahl, Aristotle. STAFF

112. *Introduction to Politics: Comparative Politics*. Political processes and principles as applied to traditional, developing and mature states. STAFF

113. *Introduction to Politics: American Politics*. The nature of politics, political principles, and political institutions with emphasis on their application to the United States. STAFF

AMERICAN POLITICS

210. *Issues in American Public Policy*. Analysis of major domestic and foreign policy problems in American politics. STAFF

211. *Political Parties*. A systematic examination of political parties with particular attention given to party systems, internal organizations, the electoral function, and responsibilities for governing. FLEER

212. *Political Behavior*. A study of the formation and expression of political opinions and the role of political participation in a democratic, representative system. FLEER

213. *Public Management*. Public administration as a study, a process, and a vocation. Theory and practice. Problems in personnel, budgeting, and management emphasized. THORNTON

214. *Bureaucratic Government*. Public administration and policy. Role of civil and military bureaucracy in public policy-making emphasized. Pervasiveness of bureaucratic power supported by comparative studies. THORNTON

218. *Legislative Behavior*. A systematic examination of the composition, authority structures, external influences and procedures of legislative bodies in the United States. FLEER

220. *American Presidency*. Emphasis on the office and the role. Contributions by contemporary presidents considered in perspective. THORNTON

222. *Urban Problems and Politics*. Political structures and processes in American cities and suburbs as they relate to the social, economic, and political problems of the metropolis. RICHARDS

225. *American Constitutional Law: Separation of Powers and the Federal System*. An analysis of Supreme Court decisions affecting the three branches of the national government and federal-state relations. RICHARDS

226. *American Constitutional Law: Civil Liberties.* Judicial interpretations of First Amendment freedoms, racial equality, and the rights of the criminally accused. RICHARDS

227. *The Judicial Process.* An analysis of the role of courts and the legal system in the American political process. RICHARDS

COMPARATIVE POLITICS

231. *Western European Politics.* Analysis of the political systems of Great Britain, France, and Germany focusing primarily on the problem of stable democracy. SCHOONMAKER

232. *Comparative Communism: Eastern Europe.* Ideological, structural and procedural aspects of the political systems of the Soviet Union and other Eastern European communist states. MOSES

234. *Asian Thought and Politics.* Political traditions and recent politics of major Asian nations. REINHARDT

236. *Latin American Politics.* Structural and procedural aspects of the Latin American political systems, focusing particularly on problems of development. MOSES

237. *Political Modernization.* The modernization process in nonindustrialized societies. Statements by modernizing elites analyzed. SCHOONMAKER

238. *History, Culture and Political Change.* The study of how major non-Western cultures articulate or symbolize their existence either in history or moving through history. Special attention will be given to an evaluation of current concepts applied to political change. REINHARDT

245. *Government and Politics of South Asia.* A study of the governments of India, Pakistan, Nepal, and Ceylon. Emphasis on political organizations, party structures, and subnational governmental systems. GOKHALE

INTERNATIONAL POLITICS

251. *Fundamentals of International Politics.* Fundamental theoretical questions of international politics with special emphasis on existing international patterns. SEARS

252. *Current Problems in International Politics.* An intensive study of one or more major problems of contemporary international politics. SEARS

254. *American Foreign Policy.* The principles and policies which characterize America's approach to the world in the contemporary period. SEARS

POLITICAL PHILOSOPHY

271. *Political Life and the Natural Order*. Inquiry into the origins, basic characteristics, and limitations of political philosophy. Representative writers: Plato, Aristotle, Machiavelli. BROYLES, STEINTRAGER
272. *Equality and Liberty*. The arguments for and against democracy and republicanism, majority rule and the rights of man. Representative writers: Locke, Rousseau, J. S. Mill. BROYLES, STEINTRAGER
273. *Radical Critiques of Political Society*. Anarchist, socialist, and communist criticisms of and alternatives to existing political societies with special attention on such problems as utopianism and alienation. Representative writers: Sorel, Marx, and Marcuse. BROYLES, STEINTRAGER
274. *Political Philosophy, Revelation, and History*. The nature and impact of general theories of history, both theological and secular, as they intersect with and affect political philosophy. Representative writers: St. Augustine, Hegel, and Voegelin. STEINTRAGER
275. *Theory of the American Polity*. Critical examination into the intent of the Framers and the nature of the American polity. Representative writers: The Federalists, Jefferson, and Lincoln. BROYLES

HONORS AND INDEPENDENT STUDY

- 283, 284. *Honors Reading and Research*. (½ per sem.) A conference course devoted to a specified reading program in the first semester and a research and writing project in the second semester. To be taken in the senior year by all candidates for departmental honors. STAFF
287. *Independent Study*. Internships, work-study projects, and other independent study programs. (See Department for details.) STAFF

SEMINARS IN POLITICS

291. *Seminar in American Politics*. Readings, research, and independent study on selected topics. Admission to the course is by permission of the Department only. FLEER, RICHARDS, THORNTON
292. *Seminar in Comparative Politics*. Readings, research, and independent study on selected topics. Admission to the course is by permission of the Department only. MOSES, REINHARDT, SCHOONMAKER
293. *Seminar in International Politics*. Readings, research, and independent study on selected topics. Admission to the course is by permission of the Department only. SEARS
294. *Seminar in Political Philosophy*. Readings, research, and independent study on selected topics. Admission to the course is by permission of the Department only. BROYLES, STEINTRAGER

PSYCHOLOGY

PROFESSORS JOHN E. WILLIAMS, BECK, DUFORT

ASSOCIATE PROFESSORS CATRON, DAVID A. HILLS, HOROWITZ,
WOODMANSEE

ASSISTANT PROFESSORS FALKENBERG, RICHMAN

INSTRUCTOR HARBIN

LECTURER BARBARA B. HILLS

Psychology 151 is prerequisite to all courses. An average of C in Psychology courses is required at the time the major is elected. A major in Psychology requires 8 semester courses and one winter term course in Psychology. The major student is required to take Psychology 151, 211, 212, 323; and one of the following courses — 321, 331, 332, 336, 338. In addition, a major student may be required to take a half course or course in mathematics in addition to the mathematics being taken for the B.A. degree.

Highly qualified majors are invited to enter the departmental honors program in the junior year. Successful completion of the program with the designation "Honors in Psychology" requires that the candidate earn a minimum QPR of 3.3 on all work in Psychology and 3.0 in all other academic work; complete satisfactorily a special sequence of courses including Psychology 281, 282 and 284; and pass a comprehensive written and/or oral examination.

151. *Introductory Psychology*. A systematic survey of Psychology as the scientific study of behavior. Prerequisite to all other courses in Psychology.

211, 212. *Experimental and Quantitative Methods*. Introduction to basic experimental methods and statistical techniques in the major content areas of psychology. Lab — 4 hrs. P-151.

241. *Psychology of Adjustment*. Normal range of adjustment and personality patterns emphasized. For non-majors. P-151.

266. *Developmental Psychology*. Survey of physical, emotional, cognitive, and social development of the child from varied points of view. P-151.

273. *Psychology of Business and Industry*. Psychological principles and methods applied to problems commonly encountered in business and industry. P-151.

281, 282. *Original Problems*. ($\frac{1}{2}$ per sem.) Non-statistical characteristics of properly-designed research, followed by supervised research experience.

281 and 282 normally are taken in that order; credit for either alone requires special permission. P-211, 212, instructor's consent.

284. *Honors Seminar*. Seminar on selected problems in psychology; intended primarily for students in the departmental honors program. P-211, instructor's consent.

321. *Learning Theory and Research*. Theoretical and experimental issues in the psychology of learning; no attempt is made to cover applications to practical (e.g., educational) situations. P-151.

323. *History and Systems*. The development of psychology from Aristotle through recent systems of psychology, e.g., functionalism, behaviorism, Gestalt. P-151.

324, 325. *Advanced Theory and Method*. Seminar treatment of current problems. 324. *Sensation and Perception*. 325. *Learning and Motivation*. Typically, only one course offered in a given year. P-211, 212, instructor's consent.

331. *Comparative Psychology*. Behavioral differences in animals at various levels of the phylogenetic scale. Lab — 2 hrs. P-151.

332. *Physiological Psychology*. Physiological bases of behavior, with special reference to the nervous system. Lab — 2 hrs. P-151.

336. *Perception and the Cognitive Processes*. Survey of theory and evidence related to problems of perception and thinking. P-151.

338. *Motivation of Behavior*. Survey of basic motivational concepts and related evidence. P-151.

344. *Abnormal Psychology*. Descriptive analysis of the major types of abnormal behavior with focus on organic, psychological, and cultural causes, and major modes of therapy. P-151.

352. *Psychological Appraisal*. Psychological tests reviewed in theory, construction, and use. Lab — 2 hrs. P-151.

356. *Personality Theory and Research*. Classical and contemporary theories of personality and related research studies. P-151.

358. *Survey of Clinical Psychology*. An overview of the field of clinical psychology. P-344, senior or graduate standing, instructor's consent.

362. *Social Psychology*. Research and issues in social psychology, including social perception, social motivational theory, attitude measurement and change, social learning, and small group behavior. P-151.

COURSES FOR GRADUATE STUDENTS*

415, 416. *Research Design and Analysis in Psychology*.

427, 428. *Behavior Theory*.

434. *Biological Psychology*.

451. *Theory and Practice of Psychological Testing*.

* For course descriptions, see the *Graduate Bulletin*.

457. *Experimental Approaches to Personality.*
465. *Advanced Social Psychology.*
481. *Contemporary Problems in Psychological Theory.*
483. *Reading and Research in Psychology.*
491, 492. *Thesis Research.*

RELIGION

PROFESSORS E. W. HAMRICK, ANGELL, BRYAN, GRIFFIN

VISITING PROFESSOR TATE

ASSOCIATE PROFESSORS DYER, MITCHELL, TALBERT, TRIBLE

ASSISTANT PROFESSOR COLLINS

VISITING ASSISTANT PROFESSOR HORTON

VISITING LECTURERS HENRY S. LEWIS, JR., ROSE

The Department of Religion offers courses in instruction designed to give every student entering Wake Forest an opportunity to acquire at least an introduction to the life, literature and the most important movements in the field of religion. It also seeks to give to students preparing for specialized service, as religious education directors, ministers, and missionaries, the foundational courses needed for further study.

One course in Religion is required of all degrees. Any course offered by the Department will be accepted to meet the requirement except those numbered 237, 240, 281, 282, 292, 318, 346, 362, and 378.

A Major in Religion requires a minimum of seven semester courses and one winter term course.

Pre-seminary students are advised to include in their program of study, in addition to courses in Religion, courses in Philosophy, Ancient History, Public Speaking, and two languages, Greek or Latin, and German or French.

Majors in Religion who have completed two courses in the Department with a QPR of 3.3, and an overall QPR of 3.0 on all college work, may apply to the Chairman of the Department for admission to the honors program. Normally this is to be done by February of the junior year. Upon completion of all the requirements, the candidate will be graduated with the

designation of "Honors in Religion." For further information consult members of the Religion Department.

111. *Introduction to the Old Testament.* A survey of the Old Testament designed to introduce the student to the history, literature and religion of the ancient Hebrews.

112. *Introduction to the New Testament.* A survey of the literature of the New Testament in the context of early Christian history.

153. *The Hebrew Prophets.* A study of the background, personal characteristics, function, message, contribution, and present significance of the Hebrew prophets.

155. *Jesus and the Synoptic Gospels.* A study of Jesus' proclamation and activity in the light of modern critical research on the gospels.

157. *The Bible Through the Ages.* A study of the beginnings, development, and transmission of the Bible with special attention to the formation of the canon and the history of Biblical translation.

160. *Early Rabbinic Judaism.* An introduction to the literature and thought of the early Rabbis.

161. *Intertestamental Judaism.* A survey of the literary, historical and religious developments in intertestamental Judaism.

171, 172. *Meaning and Value in Western Thought.* A critical survey of religion and philosophy in the Western world from antiquity to modern times. This course may count as Religion or Philosophy, but not both; choice determined at registration.

176. *Theology and Modern Fiction.* A theological examination of the human situation as understood by major 20th century novelists.

201. *Phenomenology of Religion.* A study of selected religious phenomena and of their meaning and function within human existence.

226. *Early Christian Theologians: Paul.* An introduction to the Pauline interpretation of Christianity and its place in the life of the early church.

227. *Early Christian Theologians: The Fourth Evangelist.* An examination of the Johannine interpretation of Jesus and Christian faith.

231. *Basic Christian Ethics.* The biblical and theological foundations of the Christian Ethic and its expression in selected contemporary problems.

236. *Church and Community.* An examination of the basic needs and trends of the contemporary community, especially the rural and suburban, in the light of the Christian norms for "the good community".

237. *Black Religion and Black Churches in America.* Survey of literature on these themes with an examination of the historical background and special attention to the contemporary area.

238. *Religion and Science.* An analysis of the relationship between science and religion in world culture.

Religion

240. *Principles of Religious Education*. A study of the theory and practice of religious education with emphasis on the basic foundations in religion and education.
256. *American Religious Life*. A study of the history, organization, worship and beliefs of American religious bodies, with particular attention to cultural factors.
261. *World Religions*. The place of religion in life and the origin, nature, and accomplishments of the living religions of the world, studied from the historical point of view.
262. *Buddhism*. A study of the Buddhist tradition, its fundamental features, and its impact on the cultures of Asia.
263. *Hinduism*. A study of the fundamental features of the Hindu tradition.
264. *History of Christianity*. A rapid survey of the history of the Christian Church.
271. *In Introduction to Christian Theology*. A study of the ground, structure and content of Christian belief.
- 281, 282. *Honors Course in Religion*. A conference course designed to prepare the Honors student for a comprehensive exam or research project. Both semesters must be completed.
292. *Teaching of Religion*. A study of the teaching of religion in church, school and community. This course may be credited as Education for those who are applicants for a state teacher's certificate in religious education.
- 311, 312. *An Introduction to Biblical Hebrew*. A study of the essentials of Hebrew grammar with readings from the Old Testament. Both semesters must be completed.
314. *Introduction to Biblical Archaeology*. A survey of the contributions of Near Eastern archaeology to Biblical studies.
315. *The Narrative Literature of the Old Testament*. A study of types of narratives in the Old Testament and of the relationship between literary forms and meaning.
316. *Poetic Literature of the Old Testament*. A study of Hebrew Poetry — its types, its literary and rhetorical characteristics, and its significance in the faith of ancient Israel.
317. *The Ancient Near East*. A comparative study of ancient Near Eastern cultures and religions, with special emphasis on Israel's relationships with surrounding peoples.
318. *Travel Seminar in the Mediterranean World*. Travel and study in such countries as Greece, Italy, Turkey, Egypt, Lebanon, Syria and Israel.
321. *The Quest for the Historical Jesus*. An investigation of the possibility and relevance of historical knowledge about Jesus through a consideration of the seminal "Lives of Jesus" since the eighteenth century.

327. *Major Epistles of Paul*. Introduction to the Pauline Epistles, with an exegetical study of the Epistle to the Romans. No student will be allowed credit for both 327 and 226.
334. *Christian Ethics and Contemporary Culture*. A study of the encounter between the Christian Ethic and the value systems implicit in certain social areas such as economics, politics, race and sex.
344. *Religious Development of the Individual*. A study of growth and development through childhood and adolescence to adulthood, with emphasis on the role of the home and the church in religious education.
346. *Theological Foundations of Religious Education*. A study of theological methodology, theories of learning and philosophies of education in terms of their implications for religious education.
350. *Psychology of Religion*. An examination of the psychological elements in the origin, development, and expression of religious experience.
362. *Post-Biblical Judaism*. The rise and development of post-Biblical (Rabbinic) Judaism until modern times.
365. *History of Religions in America*. A study of American religions from Colonial times until the present.
373. *The History of Christian Thought*. A study of the history of Christian thought, beginning with its Hebraic and Greek backgrounds and tracing its rise and development to modern times.
374. *Contemporary Christian Thought*. An examination of the major issues and personalities in modern theology.
376. *The Religious Crisis in 19th Century Europe and Russia*. An investigation of the revolution in 19th century religious thought.

COURSES FOR GRADUATE STUDENTS*

416. *Old Testament Theology*.
- 418, 419. *Old Testament Exegesis*.
421. *New Testament Theology*.
- 423, 424. *New Testament Exegesis*.
438. *Seminar in Historical Types of Christian Ethics*.
448. *Seminar in Religious Education*.
466. *Seminar in Christian History*.
475. *Seminar in History of Christian Thought*.
480. *Theology and the Aesthetic*.
- 491, 492. *Thesis Research*.

* For course descriptions, see the *Graduate Bulletin*.

ROMANCE LANGUAGES

A major in French or Spanish requires 8 semester courses and one winter term course beyond the elementary courses (111, 112). Courses numbered 221, 222, 225, 226 are recommended for majors.

Highly qualified French or Spanish majors are considered by the Department for admission to the honors program in Romance Languages. To be graduated with the designation "Honors in Romance Languages," they must meet certain preliminary requirements, earn a QPR of not less than 3.0 on all college work and 3.3 on all work in Romance Language courses, complete French or Spanish 281, and pass a comprehensive written and oral examination. The oral examination may be conducted, at least in part, in the student's major language.

I

FRENCH

PROFESSORS MARY F. ROBINSON, PARKER, SHOEMAKER

ASSOCIATE PROFESSOR ANNE TILLET

LECTURER RODTWITT

VISITING LECTURERS LYTTON-SELLS, MICHELET

INSTRUCTORS BOURQUIN, FREEMAN

111, 112. *Elementary French*. A course for beginners, covering the principles of French grammar and emphasizing speaking and writing and the reading of elementary texts. Lab — 1 hr.

151, 152. *Intermediate French*. A review of grammar and composition with practice in conversation. Reading of selected texts. Lab — 1 hr. P-111, 112.

153. *Intermediate French*. A review of grammar and composition with practice in conversation. Reading of selected texts. Not open to students who have completed 152 or equivalent. Lab. — 2 hrs. P-111, 112.

215. *Masterpieces of French Literature*. Reading of selected texts in French, largely from the nineteenth and twentieth centuries. Parallel reading and reports. P-152 or 153 or equivalent.

216. *Masterpieces of French Literature*. Reading of selected texts in French, largely before the 19th century. Parallel reading and reports. (Not accepted for credit toward a major in French.) P-215 or its equivalent.

221. *Conversation and Composition*. Practice in speaking and writing French, stressing correctness of sentence structure, phonetics, pronunciation, fluency and vocabulary of everyday situations. Lab — 2 hrs. P-152 or 153 or equivalent.
222. *Composition and Review of Grammar*. A systematic review of the fundamental principles of comparative grammar, with practical training in writing idiomatic French. P-152 or 153 or equivalent.
224. *French Civilization*. An introduction to French culture and its historical development. Emphasis on intellectual, artistic, political, social and economic life of France. P-221 or permission of instructor.
225. *Survey of French Literature from the Middle Ages through the Eighteenth Century*. Extensive reading and study of trends and movements. P-215.
226. *Survey of French Literature of the Nineteenth and Twentieth Centuries*. Extensive reading and study of trends and movements. P-215.
231. *Medieval French Literature*. A survey of French literature of the Middle Ages with cultural and political backgrounds. Selected masterpieces in original form and modern transcription. P-215.
232. *Seminar in Medieval French Literature*. Study of selected topics of the period. Topics may vary from year to year. P-215.
233. *Sixteenth Century French Literature*. The literature and thought of the Renaissance in France, with particular emphasis on the works of Rabelais, Montaigne, and the major poets of the age. P-215.
234. *Seminar in Sixteenth Century French Literature*. Study of selected topics of the period. Topics may vary from year to year. P-215.
241. *Seventeenth Century French Literature*. A study of the outstanding writers of the classical age. P-215.
242. *Seminar in Seventeenth Century French Literature*. Study of selected topics of the period. Topics may vary from year to year. P-215.
251. *Eighteenth Century French Literature*. A survey of French philosophical and political literature of the eighteenth century. Emphasis on Montesquieu, Voltaire, Diderot, Rousseau, and *L'Encyclopedie*. P-215.
252. *Seminar in Eighteenth Century French Literature*. Study of selected topics of the period. Topics may vary from year to year. P-215.
261. *Nineteenth Century French Literature*. A study of French literature of the nineteenth century with cultural and political backgrounds. P-215.
262. *Seminar in Nineteenth Century French Literature*. Study of selected topics of the period. Topics may vary from year to year. P-215.
263. *Trends in French Poetry*. A study of the development of the poetic genre, with analysis and interpretation of works from each period. P-215.
264. *The French Novel*. A broad survey of French prose fiction, with critical study of several masterpieces in the field. P-215.

French

265. *French Drama*. A study of the chief trends in French dramatic art, with reading and discussion of representative plays. P-215.

271. *Twentieth Century French Literature*. A study of general trends and of representative works of the foremost prose writers, dramatists and poets. P-215.

272. *Seminar in Twentieth Century French Literature*. Study of selected topics of the period. Topics may vary from year to year. P-215.

281. *Reading and Research*. Extensive reading in French literature. Study of bibliography and research techniques. Presentation of a major research paper. Restricted admission. Required for departmental honors.

WAKE FOREST UNIVERSITY SEMESTER IN FRANCE

The department of Romance Languages sponsors a Semester in France program at Dijon, the site of a well established French university. Students go as a group, accompanied by a Wake Forest professor.

Requirements: No particular major is required for eligibility. However, a student (1) should preferably be of junior standing and (2) should have taken as prerequisite French 221 or its equivalent, or at the very least one French course beyond the intermediate level.

Instruction and supervision: Students are placed in courses according to their level of ability in French, as ascertained by a test given at Dijon. Courses are taught by native French professors. A Wake Forest professor of French accompanies the group as director of the program. He supervises residential and extracurricular affairs, and has general oversight of independent study projects.

Courses at the Centre International d'Etudes Françaises

F227. *French Grammar and Linguistics*. Analysis of grammar and composition. Study of phonetics and practice in pronunciation. Use of the language laboratory.

F228. *French Civilization*. Study of the geography of France along with analysis of the political and economic situation in France and observance of French social and educational practices. Field trips to points of historical and artistic interest.

F275. *French Literature*. Lectures and discussion of the novel, theater, and poetry of France, largely of the period since 1850.

F231. *History of France*. Social and cultural history of France from the Middle Ages to the present. (credit in History)

F290. *Philosophy*. Study of Descartes and Pascal. Lectures and discussion. Term paper on a specific topic, to be evaluated by a professor of Philosophy of Wake Forest. (credit in Philosophy)

Courses at the Université de Dijon, Faculté des Lettres et Sciences Humaines

F240. *Independent study in one of several fields*. Scholar's journal and research paper. Supervision by the Director of the Semester in France and evaluation by the department for which credit is granted. Work may be supplemented by lectures on the subject given at the Université de Dijon Faculté des Lettres et Sciences Humaines.

Students choose *four* of the above courses. In addition, all take the following course.

WF5. *January in France — in September*. Residence in a French locality during September and early October. Observation of French culture, home life, education, religious practices, etc. Excursions to points of historical and artistic interest. Written record of findings and paper on some aspect of French culture, to be evaluated by the Director of the Semester in France program.

II HINDI*

PROFESSOR GOKHALE

111, 112. *Elementary Hindi*. A course in Basic Hindi grammar and vocabulary building.

151, 152. *Intermediate Hindi*. Introduction to literary Hindi, conversation and composition.

III RUSSIAN*

ASSOCIATE PROFESSOR ANNE TILLET

111, 112. *Elementary Russian*. The essentials of Russian grammar, conversational drill, and reading of elementary texts. Admission with the consent of the instructor.

153. *Intermediate Russian*. Training in principles of translation with grammar review and conversation practice. P-112 or equivalent.

215. *Introduction to Russian Literature*. Reading of edited texts from the nineteenth and twentieth centuries. P-153 or equivalent.

217. *Russian Literature of the Nineteenth Century*. A study of the foremost writers with reading of representative works. P-153 or equivalent.

* These courses are attached to the Department of Romance Languages for administrative purposes only.

218. *Seminar in Contemporary Russian Literature.* Reading of representative works in Russian with discussion of political and cultural backgrounds. May be substituted for Russian 215. P-153 or equivalent.

IV

SPANISH

PROFESSOR KING

ASSOCIATE PROFESSORS BRYANT, CAMPBELL

VISITING LECTURERS CARRILLO, MASO

INSTRUCTOR WARDLAW

111, 112. *Elementary Spanish.* A course for beginners, covering grammar essentials, and emphasizing speaking, writing, and the reading of elementary texts. Lab — 1 hr.

151, 152. *Intermediate Spanish.* A review of grammar and composition with practice in conversation. Reading of selected texts. Lab — 1 hr. P-111, 112.

153. *Intermediate Spanish.* A review of grammar and composition with practice in conversation. Reading of selected texts. Not open to students who have completed 152 or equivalent. Lab — 2 hrs. P-111, 112.

215. *Major Spanish Writers.* Reading of selected texts, largely from the nineteenth and twentieth centuries. Parallel reading and reports. P-152 or 153 or equivalent.

216. *Major Spanish American Writers.* Reading of selected texts. Parallel reading and reports. (Not accepted for credit toward a major in Spanish.) P-215 or equivalent.

221. *Conversation and Composition.* Practice in speaking and writing Spanish, stressing correctness of sentence structure, phonetics, pronunciation, fluency and vocabulary of everyday situations. Lab — 1 hr. P-152 or 153.

223. *Advanced Grammar and Composition.* A systematic review of the fundamental principles of comparative grammar, with practical training in writing idiomatic Spanish. Lab — 1 hr. P-152 or 153 or equivalent.

224. *Hispanic Civilization.* An introduction to Hispanic culture and its historical development. Emphasis on intellectual, artistic, political, social, and economic life of Spain and Spanish America. P-221 or permission of instructor.

225. *Survey of Spanish Literature from the Middle Ages through the Seventeenth Century.* Extensive reading and study of trends and influences. P-215.

226. *Survey of Spanish Literature from the Eighteenth Century to the Present.* Extensive reading and study of trends and movements. P-215.

227. *Survey of Spanish American Literature*. Extensive reading and study of works from the Colonial through the contemporary periods, with emphasis on the late-nineteenth and twentieth centuries. P-215.
228. *Seminar in Spanish American Literature*. Study of selected writings. Authors chosen may vary from year to year. P-215.
234. *Spanish Prose Fiction Before Cervantes*. A study of the several types of prose fiction, such as the sentimental, chivalric, pastoral, Moorish, and picaresque novels prior to 1605. P-215.
235. *Seminar in Spanish Prose Fiction Before Cervantes*. A study of the development of several types of Spanish prose fiction before the *Quixote*. P-215.
241. *Golden Age Drama*. A study of the major dramatic works of Lope de Vega, Calderón de la Barca, Tirso de Molina, Ruiz de Alarcón, and others. P-215.
242. *Seminar in Golden Age Drama*. A study of selected dramatic works of the period. Selections may change from year to year. P-215.
243. *Cervantes*. Intensive study of the life and works of Cervantes, with special emphasis on the *Quixote* and the exemplary novels. P-215.
244. *Seminar in Cervantes*. A study of special aspects of Cervantes' works. Emphasis may vary from year to year. P-215.
251. *Spanish Lyric Poetry*. A study of the development of the poetic genre, with analysis and interpretation of works from each period. P-215.
261. *Nineteenth Century Spanish Novel*. A study of the novels of Valera, Pereda, Galdós, Pardo Bazán, Blasco Ibáñez and their contemporaries. P-215.
265. *Spanish American Novel*. A study of the novel in Spanish America from its beginnings through the contemporary period. P-215.
266. *Seminar in Spanish American Novel*. A study of one or more categories of Spanish American novels. Materials may change from year to year. P-215.
272. *Modern Spanish Drama*. A study of the principal dramatic works from the Romantic movement through the contemporary period. P-215.
273. *Modern Spanish Novel*. A study of representative Spanish novels from the "Generation of '98" through the contemporary period. P-215.
274. *Seminar in Modern Spanish Novel*. A study of one or more categories of Spanish novels. Materials may change from year to year. P-215.
281. *Reading and Research*. Extensive reading in Spanish literature. Study of bibliography and research techniques. Presentation of a major research paper. Restricted admission. Required for departmental honors.

SOCIAL SCIENCES

(See Interdepartmental courses at end of course listings.)

SOCIOLOGY AND ANTHROPOLOGY

PROFESSORS BANKS, PATRICK

VISITING PROFESSOR HTIN AUNG

ASSOCIATE PROFESSORS EARLE (Chairman), EVANS, GULLEY,
TEFFT

ASSISTANT PROFESSOR WOODALL

INSTRUCTORS MAULTSBY, PERRICONE

LECTURERS JOWERS, SANDERS

A major in Sociology requires eight semester courses and one winter term course, to include Sociology 151, 371, and five other semester courses or seminars, chosen at the discretion of the student and his adviser. One of the latter must be a research course unless this requirement is satisfied otherwise, such as in the winter term.

A major in Anthropology requires eight semester courses and one winter term course, to include Anthropology 162, Sociology 380, five other semester courses and a seminar, chosen at the discretion of the student and his adviser. One of the latter must be a research course unless this requirement is satisfied otherwise, such as in the winter term.

Students who choose Sociology and/or Anthropology to meet course requirements may select one of the following combinations: Sociology 151 and any other Sociology course, but not, except under unusual circumstances, Sociology 371 or 380; or Anthropology 162 and any 300-level Anthropology course; or Sociology 151 and Anthropology 162, or *vice versa*.

Qualified Sociology and Anthropology majors may be considered by the department for admission to the honors program in Sociology and Anthropology. They must have earned a QPR of not less than 3.0 on all college work and 3.3 on all work in this department, satisfactorily complete a senior research project and pass a comprehensive oral and written examination. They are then graduated with the designation of "Honors in Sociology and Anthropology." Members of the staff may be consulted for additional information.

SOCIOLOGY

151. *Principles of Sociology*. General introduction to the field: social organization and disorganization, socialization, culture, social change and other aspects.
152. *Social Problems*. Survey of contemporary American social problems. Credit is not allowed for 344 if this course is taken. P-151.
248. *Marriage and the Family*. The social basis of the family, emphasizing the problems growing out of modern conditions and social change.
323. *Social Organization*. An analysis of the organization of contemporary society with emphasis on large-scale organizations. P-151.
325. *Industrial Sociology*. An analysis of the relationship between industry and society. P-151.
331. *Urban Social Organizations and Agencies*. Lectures and field work in community organizations and agencies dealing with social welfare, health, poverty, etc. Especially recommended for students interested in urban affairs or social work. P-151.
333. *The Community*. A survey of materials relating to the community as a unit of sociological investigation with emphasis on the urban setting. Of particular value for social work or community planning. P-151.
335. *Medical Sociology*. Analysis of the social variables associated with health and illness and with the practice of medicine. P-151.
337. *Social Gerontology*. Basic social problems and processes of aging. Social and psychological issues will be discussed. P-151.
339. *Public Opinion and Propaganda*. The study of public opinion and propaganda and a consideration of mass communication. P-151.
340. *Sociology of Child Development*. Socialization through adolescence in the light of contemporary behavioral science, emphasizing the significance of social structure. P-151.
341. *Criminology*. Crime: its nature, causes, consequences and methods of treatment and prevention. P-151.
344. *Social Deviation and Disorganization*. A theoretical approach to social problems. Emphasis is on the relationship between social structure and social problems. Credit is not allowed for 152 if this course is taken. P-151.
358. *Population and Society*. Techniques used in the study of population data. Reciprocal relationship of social and demographic variables. P-151.
359. *Race and Culture*. Racial and ethnic group prejudice and discrimination and its effect on social relationships. Emphasis on psychological and sociological theories of prejudice. P-151.
360. *Social Stratification*. Methods for locating and studying social classes in the U. S. Class structure, function, mobility, and inter-class relationships. P-151.

Anthropology

371. *Seminar on Sociological Theory*. A review of the major writings in the field. Emphasis is placed on the content and on the development of theory through time. P-151.
380. *Social Statistics*. Basic statistics, emphasizing application in survey research. One who takes this course may not receive credit in Bus. Adm. 368, or Math. 157.
384. *Social Research*. A survey of sociological research techniques. Emphasis on developing actual studies. P-151.
- 385, 386. *Special Problems Seminar*. Intensive investigation of current scientific research within the discipline which concentrates on problems of contemporary interest. Permission of instructor.

ANTHROPOLOGY

162. *General Anthropology*. Basic concepts of anthropology, focusing upon the biological and socio-cultural evolution of man from Pleistocene to present and an analysis of his contemporary cultural diversity.
342. *Peoples and Cultures of Latin America*. Ethnographic focus on the elements and processes of contemporary Latin American cultures. P-162 or permission of instructor.
343. *Anthropology and Developing Nations*. Analytic survey of problems facing emerging nations and the application of anthropology in culture-change programs. P-162 or permission of instructor.
344. *Medical Anthropology*. The impact of Western medical practices and theory on non-Western cultures and anthropological contribution to the solving of world health problems. P-162.
345. *Human Races*. A bio-cultural approach to the study of human racial types — past and present. P-162.
351. *Bioanthropology*. Introduction to biological (physical) anthropology: human biology, evolution and variability. P-162.
352. *Cultural Anthropology*. A cross-cultural analysis of human institutions concentrating on non-industrial societies. P-162.
353. *Peoples and Cultures of Africa*. The ethnology and prehistory of Negro Africa south of the Sahara. P-162.
354. *Primitive Religion*. The world-view and values of nonliterate cultures as expressed in myths, rituals and symbols. P-162 or Soc. 151.
355. *Language and Culture*. An introduction to the relations between language and culture including methods for field research. P-162.
356. *Archaeology*. Introduction to prehistoric archaeology: field and laboratory techniques, with survey of world prehistory. P-162.
357. *Personality in Culture*. A seminar designed to study the psychodynamics of social personality and national character. P-162 or Soc. 151.

358. *The American Indian*. Ethnology and prehistory of the American Indian. P-162.

362. *Seminar: Human Ecology and Geography*. The relations between man and his inorganic and organic environment as mediated by culture. P-162 or permission of instructor.

373. *Peoples and Cultures of Southeast Asia*. Ethnology and prehistory of Southeast Asia. P-162 or permission of instructor.

385, 386. *Special Problems Seminar*. Intensive investigation of current scientific research within the discipline which concentrates on problems of contemporary interest. Permission of instructor.

COURSES FOR GRADUATE STUDENTS*

Sociology

412. *Development of Sociological Theory*.

421. *Quantification in Social Research*.

426. *Seminar: Sociological Research Methods*.

431. *Seminar: An Analysis of Contemporary Society*.

491, 492. *Thesis Research*.

Anthropology

452. *Anthropological Theory*.

462. *Seminar: Research Methods in Social Anthropology*.

464. *Seminar: Research in Applied Anthropology*.

472. *Seminar: Research Methods in Archaeology*.

491, 492. *Thesis Research*.

SPEECH COMMUNICATION AND THEATRE ARTS

PROFESSORS SHIRLEY, BURROUGHS, WELKER

ASSOCIATE PROFESSORS HAYES, TEDFORD

ASSISTANT PROFESSOR WOLFE

INSTRUCTORS FULLERTON, GOLDSTEIN

The major in Speech Communication and Theatre Arts consists of eight semester courses and one winter term course which may be elected at the student's discretion.

* For course descriptions, see the *Graduate Bulletin*.

Each departmental major is strongly urged to elect courses in the Social Sciences, Psychology, Philosophy, and Literature. However, those students majoring in Speech Education are expected to take specific courses which meet the requirements for Teacher Certification. Information concerning these courses may be obtained from departmental advisers.

Superior majors meeting specified requirements may be invited by the Department to participate in its Honors program. To fulfill the requirements of Honors, a student must earn a QPR of 3.3 on all courses in the department and an overall QPR of 3.0, as well as successfully completing Course #281.

The following three courses apply to each of the three areas within the department:

281. *Honors in Speech Communication and Theatre Arts.* A conference course involving intensive work in the area of special interest for selected seniors who wish to graduate with departmental honors.

282. *Independent Study.* Special research and readings in a choice of interest to be approved by a faculty adviser.

283, 284. *Debate, Radio, or Theatre Arts Practicum.* ($\frac{1}{2}$ per sem.) Individualized projects in the student's choice of debate, radio, or theatre arts; includes organizational meetings, faculty supervision, and faculty evaluation. No student may register for more than $\frac{1}{2}$ Unit of Practicum in any semester. Further, no student will be allowed to take more than a total of two units credits in practicum, only one unit of which may be counted toward a major in Speech Communications and Theatre Arts. P/F Only.

COMMUNICATION-PUBLIC ADDRESS

151. *Speech Fundamentals.* A study of the nature and fundamentals of speech communication. Practice in the preparation and delivery of short speeches.

152. *Public Speaking.* The preparation and presentation of short speeches to inform, convince, actuate, and entertain. P-151.

153. *Interpersonal Communication.* The course is divided into three parts: communication theory, person-to-person communication, and small group interaction.

161. *Voice and Diction.* A study of the principles of voice and production with emphasis on phonetics as a basis for correct sound formation.

162. *Voice Production and Articulation.* This course will explore normal and abnormal articulation and voice. Includes testing procedures to determine the problem as well as therapy techniques for problem correction.

231. *Oral Interpretation of Literature.* Fundamentals of reading aloud with emphasis on selection, analysis, and performance.
251. *Persuasion.* A study of the principles and forms of persuasive speaking. Practice in persuasive speaking. P-151, or permission of instructor.
252. *Argumentation and Debate.* A study of the essentials of argumentation. Practice in debate. Open to freshmen and sophomores by permission of instructor.
261. *Speech Pathology.* Anatomy and physiology of the Speech Mechanism. Normal and abnormal development of speech. History, causes and diagnostic testing of such problems as delayed speech, stuttering, cleft palate and aphasia.
262. *Speech Correction.* Study of therapeutic principles for children and adults with stuttering, cleft palate, aphasia and delayed speech. Psychology of rehabilitation and current research included. P-261.
263. *Audiology.* Survey of the field of hearing and hearing disorders.
281. *Honors in Speech Communication and Theatre Arts.* (See previous description.)
282. *Independent Study.* (See previous description.)
- 283, 284. *Debate Practicum.* (See previous description.)
351. *Introduction to Semantics.* A study of how persons respond to words and other symbols. Reports and a critical paper.
352. *Group Discussion and Conference Leadership.* An introduction to the theory and practice of cooperative group deliberation. Collateral readings.
353. *American Public Address.* The history and criticism of American public address from colonial times to the present.
354. *British Public Address.* A historical and critical survey of leading British speakers and their speeches from the sixteenth century to the present.
- S-355. *Directing the Forensic Program.* A pragmatic study of the methods of directing high school and college forensics with work in the Wake Forest High School Speech Institute.

RADIO-TELEVISION-FILM

241. *Introduction to Broadcasting.* A Study of the historical, legal, economic, and social aspects of broadcasting.
245. *Introduction to Film.* Historical introduction to motion pictures through the study of various kinds of films and their relationship to society.
281. *Honors in Speech Communication and Theatre Arts.* (See previous description.)

282. *Independent Study*. (See previous description.)
- 283, 284. *Radio Practicum*. (See previous description.)
341. *Radio-TV-Film Production*. Advanced radio-television-film production workshop. P-283, 284.
345. *Film Criticism*. A study of film aesthetics through an analysis of the work of selected film-makers and film critics. P-245.

THEATRE ARTS

121. *Introduction to the Theatre*. A survey of all areas of Theatre Art. Experience in laboratory and University Theatre productions. Lab — 3 hrs.
223. *Stagecraft*. A study of the basic elements of theatre technology. Practical experience gained in laboratory and University Theatre productions. Open to freshmen and sophomores by permission of instructor. Lab — 5 hrs.
226. *Theories of Acting*. A study of acting theories and fundamental acting techniques. Open to freshmen and sophomores by permission of instructor. Lab. — 2 hrs.
227. *Theatre Speech*. An intensive course in the analysis and correlation of the physiological, physical, and interpretative aspects of voice and diction on the stage.
281. *Honors in Speech Communication and Theatre Arts*. (See previous description.)
282. *Independent Study*. (See previous description.)
- 283, 284. *Theatre Arts Practicum*. (See previous description.)
321. *Theatrical Scene Design*. A study of theories and styles of stage design and their application to the complete play. P-121 and 223, or permission of instructor.
323. *Play Directing*. An introduction to the theory and practice of play directing. Lab — 2 hrs. P-121 and 226, or permission of instructor.
- S-324. *Directing the Drama Program*. A study of the function of drama in the educational curriculum with emphasis on the secondary level. Laboratory work in the High School Speech Institute. Lab — 6 hrs.
326. *Advanced Acting*. A concentrated study of the actor's art through theory and practice. P-226 or permission of instructor.
327. *Theatre History I*. A survey of the development of the theatre from its origins to 1870, includes lectures, readings and reports.
328. *Theatre History II*. A survey of the development of the modern theatre from 1870 to the present day, includes lectures, readings and reports.

INTERDEPARTMENTAL COURSES

HUMANITIES

111. *In Introduction to Music, Art, and Theatre: An Interdisciplinary Approach.* A study of the interrelationship of Music, Art, and Theatre, designed to foster a deeper understanding and pleasure. Students will be expected to attend recommended concerts, art exhibits, plays, and other appropriate activities. Staff provided from the departments of Music, Art, and Speech.

213. *Studies in European Literature.* A study of approximately 12 works in translation taken from European literature.

214. *Contemporary Fiction.* A study of contemporary European and Latin American fiction in translation.

215. *Germanic and Slavic Literature.* A study of approximately 12 works in translation taken from Germanic and Slavic literature. (Not offered in 1971-72)

216. *Romance Literature.* A study of approximately 12 works in translation taken from Romance literatures. (Not offered in 1971-72)

350. *What the Arts Have Been Saying Since 1800.* An experiment in developing interpretive judgment and insight, regarding music, painting, and literature as articulations of frontier consciousness of the period, held in Reynolda House.

SOCIAL SCIENCES

151. *Introduction to the Social and Behavioral Sciences.* An interdepartmentally taught course which examines (a) the common elements and differences in method and philosophy of Anthropology, Economics, Political Science, Psychology and Sociology, and (b) a series of universally important and contemporary issues facing man such as war, minority groups and technology and its effects. This course will be open to 50 freshman and sophomore students.

381, 382. *Interdisciplinary Study and Research in Developing Areas.* This course, designed to introduce students to problems facing developing areas, includes directed studies, intensive field research, and data analysis.

THE ASIAN STUDIES PROGRAM

The Asian Studies Program was established in 1960 with financial assistance from the Mary Reynolds Babcock Foundation of Winston-Salem. The program is interdisciplinary in its nature and involves the cooperation and resources of several departments in the Humanities and Social Sciences. Its objec-

tives are to broaden the university's traditional curriculum with the infusion of a systematic knowledge and understanding of the culture of Asia. The director of the program is Dr. B. G. Gokhale. The following courses are available in the Wake Forest University curriculum:

Art 221. *Art of India.*

Asian Studies 211, 212. *Asian Thought and Civilization.* Some dominant themes in Asian Thought and their influence on Asian Civilizations.

History 341, 342. *History and Civilization of Southeast Asia.*

History 343. *Imperial China.*

History 344. *Modern China.*

History 345, 346. *History and Civilization of South Asia.*

History 347. *India and the West.*

History 348. *Themes in Indian Civilization.*

History 349, 350. *East Asia.*

Hindi 111, 112. *Elementary Hindi.*

Hindi 151, 152. *Intermediate Hindi.*

Political Science 234. *Asian Thought and Politics.*

Political Science 245. *Government and Politics of South Asia.*

Anthropology 373. *Peoples and Cultures of Southeast Asia.*

Religion 262. *Buddhism.*

A description of each of these courses may be found in the curriculum of the department concerned.

The Asian Studies Program also conducts Semester in India Program under which a selected group of students spends three months doing academic work at an Indian College and travel in India as a part of the total curriculum. Further information on this may be obtained from the Director of the Asian Studies Program.

COURSES AT SALEM COLLEGE

Wake Forest University and Salem College participate in a plan of exchange credits whereby courses offered at Salem and not offered at Wake Forest are available to full-time students regularly enrolled at Wake Forest. The same privilege is extended by Wake Forest to full-time Salem students.

A Wake Forest student interested in taking a course at Salem must make formal application in advance, and the application must be approved by his faculty adviser and by the Dean of the College. No financial payment is necessary except in certain courses in which the student receives private instruction. Grades and quality points earned in courses at Salem are evaluated in the same way as they would be if the work were taken at Wake Forest.

More detailed information about this plan is available in the offices of the Registrar and the Dean of the College. The plan is effective only during the regular academic year and not during any summer session.

THE CHARLES H. BABCOCK SCHOOL OF BUSINESS ADMINISTRATION

FACULTY*

JAMES RALPH SCALES, *President*

ROBERT S. CARLSON, *Dean and Professor of Management*

ROBERT W. SHIVELY, *Associate Dean and Lecturer in
Management*

JULIUS H. CORPENING, *Executive Director of the Urban
Affairs Consortium and Lecturer in Management*

JUDSON D. DERAMUS, *Director of the Management
Institute*

JEAN B. HOPSON, *Librarian*

RICHARD G. LEADER, *Assistant to the Dean*

Graduate Program

FREDERICK M. WHITMEYER, *Director of Admissions and
Student Affairs and Lecturer in Management*

W. FRANKLIN EDWARDS, *Assistant Professor of Management*

MARVIN D. LOPER, *Assistant Professor of Management*

PETER R. PEACOCK, *Instructor in Management*

Undergraduate Program

DELMER P. HYLTON, *Chairman of the Department of
Business and Accountancy and Professor of Accounting*

JEANNE OWEN, *Director of the B.B.A. Program and
Professor of Business Law*

J. VAN WAGSTAFF, *Chairman of the Department of
Economics and Associate Professor of Economics*

WILLIAM E. CAGE, *Assistant Professor of Economics*

LEON P. COOK, JR., *Associate Professor of Accounting*

HUGH K. HIMAN, *Assistant Professor of Economics*

ALBERT HYNDMAN, *Visiting Professor of Economics*

WILLIAM V. LUCKIE, *Instructor in Accounting*

JOHN C. MOORHOUSE, *Assistant Professor of Economics*

JOE N. NORMAN, *Visiting Lecturer in Accounting*

KARL MYRON SCOTT, *Professor of Management*

* See Administration and Faculty Sections for full information.

Since its establishment in 1948, the School of Business Administration has offered an undergraduate program with courses leading to the Bachelor of Business Administration degree. The work of this degree is based upon a philosophy emphasizing the breadth of the educational experience. It combines exposure to the arts and sciences and to the professional business curriculum. The functional areas of business administration and the decision-making process are stressed.

By action of the Trustees in April of 1969, the Charles H. Babcock School of Business Administration is being changed into a graduate school, with the first degree candidates to be admitted in September, 1971.

An innovative graduate program, utilizing those techniques and approaches which seem particularly effective in stimulating learning, has been developed by the School's new graduate faculty. A business library has been organized, containing specialized materials selected to support the curriculum. A program leading to the Master of Business Administration degree is offered. Of particular interest to individuals living in the Piedmont region is the MBA-EX (Executive) program, which offers working executives the opportunity to study for the M.B.A. degree one full day a week over a two-year period.

After June, 1973, all undergraduate work in business at the University will be offered in Wake Forest College. (See page 63 of this Bulletin.)

As a result of the generosity of the Z. Smith Reynolds Foundation and Mrs. Nancy Susan Reynolds, the Babcock School occupies a completely modern building** honoring the late Charles H. Babcock.

Accreditation

The Charles H. Babcock School of Business Administration is a full member in good standing of the American Association of Collegiate Schools of Business.

Management Institute Programs

The Management Institute of the Babcock School sponsors courses and seminars for which certificates of completion are

** See page 16 of this Bulletin.

awarded. This program of continuing education is geared to the specific needs of managers in the Southeastern United States. Representative offerings include one semester evening courses, one and two day seminars on selected topics, and a ten day middle management program emphasizing new approaches to decision-making. In addition, the Management Institute is equipped to offer specialized courses for business firms and professional organizations. Inquiries should be addressed to the Director of The Management Institute, Babcock School of Business, P. O. Box 7285, Reynolda Station, Winston-Salem, North Carolina 27109. Telephone 919/725-9711, Extension 260.

Admission to the Babcock Graduate School of Management

The Admissions Committee of the Babcock Graduate School of Management must select from applicants to the program those individuals it feels possess both the necessary intellectual qualifications and the enthusiasm to participate in a flexible and revolutionary new learning process. Because of the desire to have a small and dynamic group, only a limited number of applicants can be accepted. For this reason, the School is particularly interested in finding strong reasons for admitting an individual to the program. In arriving at a decision, the admissions office looks for such combinations of intellect, personality and past achievement that will lead it to believe that the individual applicant has the potential for becoming an administrative leader.

A candidate's academic record and test scores are only part of the data considered in an application. No level of grades or test scores will guarantee acceptance. In like manner, no level will be so low as to prevent consideration of the applicant. The School seeks to determine the uniqueness of the individual as this bears upon his potential managerial talents.

Interviews are by no means required, but because of the School's unique academic philosophy, they are highly recommended. The faculty's desire to place a great deal of emphasis upon the individual in the learning process necessitates that it know as much as possible about each candidate. In addition, it is hoped that interviews will allow the applicant to become better acquainted with the Babcock Graduate School of Management and the Wake Forest community. Interviews may be arranged through the office of the Director of Admissions and

Student Affairs of the Babcock Graduate School of Management of the Charles H. Babcock School of Business Administration, Wake Forest University, Box 7657, Reynolda Station, Winston-Salem, North Carolina 27109. Telephone 919/725-9711, extension 222.

Admission to the B.B.A. Program

Admission of undergraduates to the Babcock School is at the junior level. Juniors who meet the requirements listed below may be admitted as candidates for the B.B.A. degree in the fall of 1971, provided they expect to complete requirements for the degree by June of 1973. Students wishing to major in business or accountancy who do not expect to graduate by June of 1973 will become candidates for the Bachelor of Science degree in Wake Forest College. (See page 63 of this bulletin). Students who become juniors in the fall of 1971 may become candidates for either the B.B.A. or the B.S. degree. The B.A. in Economics is available to all students. (See page 63 of this bulletin.)

Subject to the time limitations indicated above, a junior who has completed 17 courses and who has a 2.0 quality point ratio may be admitted to the School upon application.

It is desirable, but not required, that a student have completed Accountancy 111 and 112 and Economics 151 and 152 before his junior year.

For minimum academic requirements for continuation in the School, see page 55.

Transfer of Credits from Other Schools

Two-thirds of the total course work in Accountancy, Business Administration and Economics required for the B.B.A. degree must be taken in this School. The following rules apply for transfer of residence credit from other schools:

1. A student transferring to Wake Forest University must first meet the general admission requirements of the College. If he transfers 17 courses or more and wishes to become a candidate for the B.B.A. degree he must then apply for admission to the Charles H. Babcock School of Business Administration.

2. A course passed with the lowest passing grade at another institution does not give hour credit toward graduation, but may be used to satisfy a course requirement upon approval of the Director of the B.B.A. Program.
3. Work passed above the minimum passing grade:
 - (a) Schools which are members of the American Association of Collegiate School of Business:
All credit is acceptable if the student received a satisfactory grade in the course and if a similar course is offered at Wake Forest University. Credit for courses not offered at Wake Forest University may be accepted upon approval of Director of the B.B.A. Program.
 - (b) Four-year colleges which are accredited by the regional accrediting association:
Credit for Principles of Accounting and Principles of Economics will be granted with or without a validating exam at the discretion of the Director of the B.B.A. Program. A validating examination may be required for any course transferred.
 - (c) Accredited junior colleges:
Principles of Economics may be accepted without a validating exam at the discretion of the Director of the B.B.A. Program. A validating exam is required for Principles of Accounting. No junior or senior courses will be accepted.
 - (d) Non-accredited schools:
All credit transferred must be validated by examination.

Organizations

Beta Gamma Sigma, the national honorary society in business, elects to membership each year a limited number of the academically outstanding candidates for the B.B.A. degree. Two professional fraternities for men, the Gamma Nu Chapter of Delta Sigma Pi and the Gamma Delta Chapter of Alpha Kappa Psi, offer opportunities for fellowships and learning outside the classroom. The Business Student Association represents all undergraduate business students and serves as a liaison between students and the faculty of the School.

Awards

For a description of the following awards see pages 74: Lura Baker Paden Medal, North Carolina Association of Certified Public Accountants Medal, A. M. Pullen and Company Medal, Wall Street Journal Award, Delta Sigma Pi Scholarship Key.

Requirements for the B.B.A. Degree

For the B.B.A. degree a candidate must complete a total of 35½ courses, as defined under the 1971 catalog.

Course work taken in semester or quarter hours prior to September, 1971, will be converted into equivalent courses. The 35½ courses must include certain required courses as set forth below plus electives in Accountancy, Business Administration, and Economics to bring the total work in these three areas to forty percent of the 35½ courses required for graduation. In addition, the student must meet the quality point ratio required for all undergraduate degrees at Wake Forest. (See page 64.)

Basic Requirements

English 111, 112, 153, 156	Mathematics 105 (unless waived) and 161
History 111, 112	Choice of (a) or (b)
Religion, 2 courses	(a) Foreign Language through 152
Philosophy 151	(b) Mathematics 111 or 162 or 255-256 and Speech 151
Social Sciences:	Physical Education 111, 112
Economics 151, 152 and 2 courses in Politics or Sociology-Anthropology	
Natural Science, 2 courses	

Required Courses in Accountancy and Business Administration

Acct. 111, 112 (Principles)	B.A. 368 (Statistics)
B.A. 331 (Management)	B.A. 420 (Finance)
B.A. 340 (Marketing)	B.A. 360 (Quantitative Analysis)
B.A. 350 (Communications)*	
B.A. 361 (Legal Environment)	

Major or Concentration

In addition to the requirements listed above, a student must present either a major in Accountancy or a concentration of two courses beyond the required courses in one of the following: Accountancy, Economics, Finance, Management, Marketing, or Public Administration. The following courses may be counted toward a concentration in the designated areas:

* Not required for students graduating after 1972.

Accountancy: All Accountancy courses except 111, 112.

Economics: BA 346 and all Economics courses except 111, 151, 152, 157, 203.

Finance: B.A. 326, 342, 364; Acct. 271; Econ. 221, 222.

Management and Industrial Relations: B.A. 332, 333, 421, 434; Acct. 153, 252; Econ. 244, 255.

Marketing: B.A. 341, 342, 344, 346, 442; Econ. 251.

Public Administration: B.A. 270, 333; Acct. 251; Econ. 221; Politics 113 (cannot be used to meet both this requirement and the Social Science requirement).

Major in Accountancy

In addition to the basic and core professional courses required of all B.B.A. students, a major in Accountancy requires B.A. 362 and 8 courses in Accountancy, including 111, 112, 151, 152, 252, 261, 271, and 273. The remaining courses in the major and other courses are to be selected by the student and the accounting advisor. Students who graduate as Accountancy majors are permitted to take the C.P.A. examination in North Carolina without qualifying experience which is otherwise necessary.

For a description of the courses in Accountancy, see page 88.

Business Administration

270. *Public Management.* This course may count as Business Administration or Political Science, but not both. See Political Science 213.

326. *Investments.* Study of the principles governing the investment of personal and institutional funds. P-Acct. 112, Econ. 152.

331. *Management Policy.* Explanation of the policies involved in the performance of the basic functions of planning, organizing, actuating, and controlling modern business organizations. P-Econ. 151, 152.

332. *Production Management.* Study of production control policies, procedures, and techniques. Cases, associated readings, and assigned problems. P-331.

333. *Personnel Management.* Analysis of principles and procedures of acquiring, using and compensating a labor force. Selected case studies. P-Econ. 151, 152.

340. *Marketing Management*. Survey of marketing concepts and behavior. Study of managerial decisions necessary in the distribution of goods and services.
341. *Advanced Marketing Management*. Synthesis of the key aspects of marketing management and strategy. P-340.
342. *Credits and Collections*. Study of the economic and social implications of credit. Analysis of the specific types of credit. P-340.
344. *Retailing*. An orientation to the managerial study of retailing. P-340.
346. *Principles of Transportation*. An integrated approach to domestic transportation. Management of physical distribution. P-340.
350. *Business Communication*. Intensive work in the writing of reports, memoranda, and position papers. Introduction to semantics. P-Eng. 112.
361. *Legal Environment of Business*. Study of the legal environment within which business decisions must be made.
362. *Business Law*. Selected topics of law from areas of particular interest to businessmen.
364. *Insurance*. Study of the principles of risk taking applicable to life, property, casualty, and social insurance.
366. *Real Estate*. Study of the principles, laws, and practices relating to appraisal, ownership, financing, and management of real property.
368. *Business Statistics*. (See Economics 203).
420. *Financial Management*. Analysis of financial decision making at the level of the individual business enterprise.
421. *Labor Law*. Analysis of the effect of labor legislation upon the policies and actions of both management and labor.
434. *Labor Policy*. Theories of wage determination, employment, and income distribution with emphasis on labor unions and the collective bargaining process. P-Econ. 152.
442. *Promotion Management*. Study of various sales techniques, with emphasis on advertising and personal selling.
460. *Quantitative Analysis of Business Data*. Study of administrative decision making under conditions of risk and uncertainty. P-Math 161.
470. *Advanced Management Policy*. Synthesis of the economics, marketing, accounting and finance areas of business through use of case analysis and related techniques. Permission of the instructor.

For course descriptions in Economics see page 94.

GRADUATE SCHOOL

On January 13, 1961, the Trustees of Wake Forest College established the Division of Graduate Studies and announced that beginning in September, 1961, the College would resume course and research work leading to the degree Master of Arts in the Departments of Biology, Chemistry, English, History, Mathematics, and Physics. In September, 1964, the Department of Psychology was added to this group. Two years later, graduate study was begun in the Department of Sociology and Anthropology, and in September, 1967, the Departments of Physical Education and Religion inaugurated master's degree programs. In September, 1969, the Department of Speech introduced work leading to the M.A. degree. A year later the Department of Biology began work leading to the Ph.D. degree.

On June 12, 1967, when Wake Forest College became Wake Forest University, the name of the Division of Graduate Studies was changed to the Graduate School. Also on that date, the Department of Education began offering programs of study leading to the Master of Arts in Education degree for those training to become teachers, principals, supervisors, and counselors in the field of education or elsewhere.

Candidates for the degree Master of Arts are required to complete successfully a minimum of twenty-four hours of course work, write a thesis for which six hours of credit are allotted, and pass a reading examination in one modern foreign language, or, in some disciplines, substitute a demonstration of competency in a special skill such as computer programming or statistics. The requirements for the Master of Arts in Education degree are essentially the same except that prospective principals and counselors may write an internship report instead of a thesis.

The Graduate School will have twenty full tuition scholarships available to be awarded for the summer of 1971 and a total of sixty-eight assistantships, fellowships, and scholarships for the academic year 1971-1972.

The *Bulletin* of the Graduate School, an application for admission form, and an application for grant form may be obtained by writing the Dean of the Graduate School, Box 7323, Reynolda Station, Wake Forest University, Winston-Salem, North Carolina 27109.

SCHOOL OF LAW

FACULTY*

JAMES RALPH SCALES, *President*

PASCO M. BOWMAN II, *Dean and Professor of Law*

RICHARD GORDON BELL, *Professor of Law*

LEON HENRY CORBETT, JR., *Assistant Dean and Associate Professor of Law*

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CARROLL W. WEATHERS, *Dean Emeritus and Professor of Law*

JAMES A. WEBSTER, JR., *Professor of Law*

MRS. VIVIAN LUNSFORD WILSON, *Law Librarian*

GENERAL STATEMENT

The School of Law was established as a department of Wake Forest College in 1894, the first instructor being Professor N. Y. Gulley, who served as dean from 1905 until his retirement from active administration in 1935. From the beginning, the school has steadily grown and developed until it now has a faculty of ten full-time teachers.

The selection and treatment of the courses of study offered in the School of Law, and the method of instruction employed are designed to afford comprehensive and thorough training in the broad field of legal education and to equip students to practice in any jurisdiction where the Anglo-American law system prevails. The achievement of these purposes necessitates, first, the requirement of adequate and appropriate preliminary education in order to assure an intellectual maturity and cultural background against which legal principles and problems can be understood in their social, economic and moral, as well as in

* See Administration and Faculty sections for full information.

their legal aspects; second, a comprehensive study of the theories and doctrines of the Anglo-American system of law and their statutory modification.

The School of Law has as its objective, not only to train a student in legal principles and doctrines, but also to stimulate his reasoning powers, to prepare him to present legal propositions logically and analytically, and to develop in the student a profound sense of legal ethics, professional responsibility and the duty of the lawyer to society.

The School of Law is fully approved by all national and state accrediting agencies. It is a member of the Association of American Law Schools, and is listed as an approved school by the American Bar Association, by the Board of Law Examiners and Council of the North Carolina State Bar, and by the University of the State of New York.

The School of Law has its separate building, modern in all respects and designed to accommodate the continued growth and future development of the School and the expansion of its program in the field of legal education. The law building, which is a handsome four-story structure, contains many attractive and useful features including air-conditioning.

The Law Library contains approximately 42,000 volumes, carefully selected to avoid unnecessary duplication and to insure the greatest possible usefulness.

ADMISSION REQUIREMENTS

The academic requirements for admission to the School of Law, as a candidate for the J.D. degree, may be satisfied by any one of the following methods:

(1) An academic degree from an approved college or university.

(2) The completion of three years of academic work prescribed in the "Combined Course" in Wake Forest College. (See pages 71-72 for details.)

The School of Law does not admit applicants without an academic degree, except applicants from Wake Forest College who pursue the "Combined Course" plan of three years of acceptable academic work in Wake Forest College.

The academic requirements set forth above are minimum requirements, and satisfaction of these requirements does not necessarily entitle an applicant to admission. The School of Law requires for admission a scholastic average appreciably higher than a bare C average, and considers not only the scholastic average, but also the nature and subject-matter of the courses taken by the applicant. In addition, an applicant for admission is required to take the Law School Admission Test (hereinafter referred to) and to have his scores on such Test furnished this Law School.

There is no rigidly prescribed pre-legal curriculum for admission to the School of Law. Since the law, in its application and as a subject of study, touches so many phases of life, it has been considered unwise to require an inflexible preparatory course. The School of Law merely recommends the inclusion of as many of the following courses as possible in any pre-law program of study: English Composition, History of the United States, History of England, European History, Constitutional History, Government of the United States, State and Local Government, Comparative Government, International Relations, Literature, Foreign Languages, Speech, Psychology, Philosophy, Logic, Natural Sciences, Mathematics, Principles of Economics, Accounting, and Investments.

Application for admission to the School of Law must be made in writing on a form furnished by the Dean of the School of Law. The applicant must request the Registrar of each college or university that he has attended to send a complete transcript of his record direct to the Dean of the School of Law.

Beginning students are admitted to the School of Law at the opening of the fall session. In addition, for several years it has been the policy of the School of Law to admit beginning students at the opening of the spring session, which enables such students by continuing without interruption to complete the three-year course in two and one-half years consisting of five regular semesters and two summer sessions.

Admission to Advanced Standing. A student from a law school which is a member of the Association of American Law Schools, who is otherwise qualified to enter this school, may in the discretion of the faculty be admitted to advanced stand-

ing for the J.D. degree. The student must be eligible for readmission to the law school from which he proposes to transfer. The last year of work on the basis of which the degree is granted must be taken in the Wake Forest University School of Law.

ADMISSION TEST

The School of Law requires all applicants for admission to take the Law School Admission Test, a test administered by Educational Testing Service. The applicant's score on the Test will be considered among other factors in passing on his application for admission to this Law School.

Applicants should write Law School Admission Test, Educational Testing Service, P.O. Box 944, Princeton, New Jersey, for application forms for taking the Test, and for the Bulletin of Information regarding the Test.

SCHOLARSHIPS AND STUDENT AID

The School of Law has a number of scholarships available for each beginning class. Some of these scholarships are awarded on the basis of character, scholarship and financial need. Additional scholarships in a larger amount and covering full tuition are available for each beginning class and are awarded on the basis of character and exceptional scholastic achievement without regard to financial need. Application forms for scholarships may be obtained from the Dean of the School of Law. Applications for scholarships should be filed by March 10th for the school year commencing the following September.

The University has available loan funds for the benefit of students who are in need of financial aid and have satisfactorily completed at least a full semester.

In addition, a number of law students are afforded limited employment as Law Library assistants and dormitory counselors but usually after the completion of their first year.

DEGREE OF J.D.

The degree of Juris Doctor (J.D.) will be awarded to the student who (1) has fulfilled the requirements for admission to the School of Law as a regular student, (2) thereafter spends

the equivalent of three academic years in resident study in the School of Law, (3) successfully completes eighty-three semester hours of law, including all prescribed courses, and (4) attains a cumulative weighted average of 67 or more on all work required for graduation.

THE SUMMER SESSION

The School of Law operates a summer session of nine weeks, the work of which is carefully planned with reference to the curriculum of the regular academic year, and may be used either to supplement the regular curriculum or as a substitute for part of it. Courses are offered during the summer session for advanced students only.

FURTHER INFORMATION

Descriptions of the system of grading and examinations, general scholastic regulations, student organizations, prizes and awards, and the complete course of study are contained in a special Law School Bulletin, issued annually. Requests for this Bulletin, and other correspondence concerning the School of Law, should be addressed to The Dean, School of Law, Wake Forest University, P. O. Box 7206 Reynolda Station, Winston-Salem, N. C. 27109.

BOWMAN GRAY SCHOOL OF MEDICINE

ADMINISTRATION OFFICERS*

JAMES RALPH SCALES, *President*

MANSON MEADS, *Vice President for Medical Affairs and Dean*

CLYDE T. HARDY, JR., *Associate Dean (Private Patient Services)*

C. NASH HERNDON, *Associate Dean (Research Development)*

ARCHIE T. JOHNSON, JR., *Assistant Dean*

EMERY C. MILLER, JR., *Associate Dean (Continuing Education)*

C. DOUGLAS MAYNARD, *Associate Dean*

HARRY O. PARKER, *Controller*

MRS. ERIKA LOVE, *Librarian*

ORIGIN AND DEVELOPMENT

The School of Medicine was established at Wake Forest in 1902. It was renamed the School of Medical Sciences in 1937 and operated as a two-year medical school until 1941, when it was moved to Winston-Salem as a four-year medical school in association with the North Carolina Baptist Hospital. It was renamed The Bowman Gray School of Medicine of Wake Forest University in recognition of the benefactor who made the expansion possible.

FACILITIES

The main teaching hospital of the medical school is the North Carolina Baptist Hospital. It has 477 general hospital beds, an 80-bed progressive care unit, a 12-bed intensive care unit, and an outpatient department which serves 95,000 patient visits a year.

* See Administration and Faculty sections. For the complete faculty roster, see the special bulletin of The Bowman Gray School of Medicine, which may be obtained by request to The Office of Admissions, Bowman Gray School of Medicine, Winston-Salem, North Carolina 27103.

The medical school and hospital buildings join to form a single unit, resulting in close correlation of clinical and basic medical science teaching programs.

Construction is under way on buildings included in a multi-million dollar expansion program which will virtually double the size of the medical center. The project will increase the number of teaching beds to 695 and will provide additional clinical, educational and research facilities. Newly constructed facilities have permitted a 37 per cent increase in medical student enrollment and a significant expansion of the graduate and postdoctoral programs.

Major elements of the program include the Hanes Building, a 122,000-square-foot addition to the medical school; the 400-seat Charles H. Babcock Auditorium, a School of Nursing and Allied Health Programs Building, and a new medical center power plant, all of which have been completed. A 16-story hospital and clinics building will be completed in 1973.

REQUIREMENTS FOR ADMISSION

The requirements for admission to the medical school are based on the premise that the program of training a physician is a continuous one shared by both the undergraduate college and the medical school. The responsibility of the undergraduate training program is thus not only to provide the prospective student with the technical information and skills which will make it possible for him to complete his course in medical school but also to help him develop a broad background of experience and interest which will make it possible for him later to achieve a full realization of his potentialities as an individual and as a member of society.

Although ninety semester hours are the minimum requirement, it is felt that, except in unusual circumstances, the student should plan to complete a well-rounded four-year college course, comprising certain specific requirements, but with the emphasis on a broad educational program.

In order for the student entering medical school to be prepared for his courses, he must have acquired certain basic

scientific information. Such information is ordinarily obtained in the following undergraduate courses:

- 2 semesters of general biology
- 2 semesters of general chemistry
- 2 semesters of organic chemistry
- 2 semesters of general physics

It should be emphasized that, in listing the above scientific requirements, it is not intended to minimize the importance of other less specific educational requirements.

In addition to the material listed above, the student should acquire extensive knowledge of man as the product of his social, physical, and emotional environment. The desired training is given in courses in Philosophy, Religion, Economics, Sociology, History, Literature, Mathematics, Language, and Psychology. The student is urged to acquaint himself as widely in these fields of knowledge as time and his inclination will permit.

ADMISSION

Students are selected on the basis of academic performance, character, and general fitness for the study of medicine. No student will be admitted who is ineligible, because of scholastic difficulties or misconduct, to re-enroll in a school previously attended. Students more than twenty-six years of age are not encouraged to apply.

GRADUATE STUDIES

Course work is offered leading to the Doctor of Philosophy degree with a major in Anatomy, Biochemistry, Microbiology, Pharmacology, Physiology and Comparative and Experimental Pathology. In addition, course work leading to the M.S. degree is offered in Biochemistry, Microbiology, Pharmacology and Physiology. A program leading to the Master of Science degree is offered in the Department of Laboratory Animal Medicine for students who hold the D.V.M. degree. The Master of Science degree in Medical Sciences is offered to qualified students including medical students and persons holding the M.D., D.V.M. or D.D.S. degrees. This graduate program may be carried out in

any department or section of the medical school with the approval of the Committee on Graduate Studies.

Detailed information concerning the graduate program can be obtained by writing to the Office of Graduate Studies, The Bowman Gray School of Medicine, Winston-Salem, North Carolina 27103.

FURTHER INFORMATION

For detailed information concerning enrollment in The Bowman Gray School of Medicine, admission to advanced standing, and other matters, address The Committee on Admissions, The Bowman Gray School of Medicine, Winston-Salem, North Carolina 27103.

THE 1971 SUMMER SESSION

Six-Week Term — June 14 - July 23

Two Four-Week Terms — July 14 - July 10, July 12 - August 7

Five-Week Term — July 24 - August 26

The Summer Session of 1971 will provide a variety of terms to accommodate the needs and purposes of students who attend in the summer. The majority of courses will be offered in the first six-weeks term. Class work will be confined to the mornings, except for a few courses in music and physical education. Periods will be seventy-five minutes in length, and classes will meet daily, Monday through Friday.

Courses in the sciences carry four semester hours credit each, and those in swimming, choir and golf one semester hour each. All other courses carry three semester hours credit. The normal load for a student is six semester hours; the maximum load is seven hours.

The courses offered are designed to met the needs of regular Wake Forest students, incoming freshmen, visiting students from other colleges, and public school teachers seeking renewal of certificates. There will be courses in Art, Biology, Business Administration, Chemistry, Economics, Education, English, French, History, Latin, Mathematics, Music, Philosophy, Psychology, Physics, Physical Education, Religion, Sociology and Anthropology, Spanish, and Speech. The Department of Education will offer a course in Directed Teaching for students interested in qualifying for a class A teaching certificate.

Two four-week terms will enable a student to take a half or a full year of basic science in biology, chemistry, or physics. Registration for this program will begin on June 14 and on July 12. Class and laboratory hours will be from 8:00 a.m. until 1:00 p.m., Monday through Friday.

Graduate courses leading to the Master of Arts degree will be offered in the departments of English, History, Physical Education, Psychology, Sociology and Anthropology, Religion and Speech. Opportunities for research toward the Master of

Arts degree, but not graduate courses, will be provided in the departments of Biology, Chemistry, Mathematics and Physics.

A special program, the Master of Arts in Education, will be offered for teachers who desire to complete a Master's program in three summer sessions. In 1971 a second term of five weeks will enable teachers to obtain twelve hours credit in the summer. No undergraduate courses will be offered in this term.

Additional information from the Summer Session Bulletin may be obtained by writing the Dean of the Summer Session, Wake Forest University, Box 7293, Reynolda Station, Winston-Salem, N. C. 27109.

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For One-Year Term Beginning January 1, 1971

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LESLIE E. BROWDER, Drawer 84, Winston-Salem, *General Counsel*

*ADMINISTRATION

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 B.A., Wake Forest; A.M., Ph.D., Harvard.
- MANSON MEADS (1947, 1963) *Vice President for Medical Affairs,
Dean of the Bowman Gray School of
Medicine and Professor of Medicine*
 A.B., California; M.D., D.Sc., Temple.
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 B.A., Phillips; M.A., Denver.

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- THOMAS E. MULLEN (1957) *Dean of the College and
Associate Professor of History*
 B.A., Rollins; M.A., Ph.D., Emory University.
- ROBERT ALLEN DYER (1956) *Assistant Dean of the College and
Associate Professor of Religion*
 B.A., Louisiana State; Th.M., Th.D., Southern Baptist Theological Seminary.
- TOBY A. HALE (1970) *Assistant to the Dean of the College*
 B.A., Wake Forest; M.Div., Duke.
- MARK H. REECE (1956) *Dean of Men*
 B.S., Wake Forest.
- LULA M. LEAKE (1964) *Dean of Women*
 B.A., Louisiana State; M.R.E., Southern Baptist Theological Seminary.

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- PASCO M. BOWMAN, II (1970) *Dean of the School of Law
and Professor of Law*
 B.A., Bridgewater; J.D., New York University.
- LEON H. CORBETT, JR. (1968) *Assistant Dean of the School of Law
and Associate Professor of Law*
 B.A., LL.B., Wake Forest.

OFFICES OF THE BOWMAN GRAY SCHOOL OF MEDICINE

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of the Bowman Gray School of Medicine
and Professor of Preventive Medicine
and Medical Genetics*
 A.B., Duke; M.D., Jefferson Medical College.
- CLYDE HARDY (1941) *Associate Dean (Private Patient Services) of the
Bowman Gray School of Medicine*
 B.A., Richmond.
- C. DOUGLAS MAYNARD (1966) *Associate Dean of the Bowman Gray
School of Medicine, Assistant Professor of Radiology
and Associate in Neurology*
 B.S., Wake Forest; M.D., Bowman Gray.

* Date following name indicates year of appointment. More than one date indicates separate appointments.

Administration

EMERY C. MILLER, JR. (1955) *Associate Dean for Continuing Education,
Professor of Medicine, and Associate in Physiology*
B.A., North Carolina; M.D., Johns Hopkins.

ARCHIE T. JOHNSON, JR. (1970) *Assistant Dean (Admissions)
of the Bowman Gray School of Medicine
and Instructor in Pediatrics*
B.S., Davidson; M.D., Medical College of Virginia.

HARRY O. PARKER (1947) *Controller of the Bowman Gray School
of Medicine*
B.S., University of North Carolina; C.P.A., North Carolina.

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S.B., M.I.T.; M.B.A., Ph.D., Stanford.

ROBERT W. SHIVELY (1970) *Associate Dean of the Charles H.
Babcock School of Business Administration and
Lecturer in Management*
B.A., Colgate; Ed.M., Harvard.

FREDERICK M. WHITMEYER (1970) *Director of Admissions and Student
Affairs of the Babcock Graduate School of Management of the
Charles H. Babcock School of Business Administration
and Lecturer in Management*
B.S., M.B.A., Louisiana State.

JEANNE OWEN (1956) *Director of the B.B.A. Program, Charles
H. Babcock School of Business Administration,
and Professor of Business Law*
B.S., U.N.C.-Greensboro; M.C.S., Indiana; J.D., U.N.C.-Chapel Hill.

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Babcock School of Business Administration*
B.A., Wake Forest.

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B.S., M.A., Wake Forest; Ph.D., Duke.

OFFICE OF THE DEAN OF THE SUMMER SESSION

PERCIVAL PERRY (1939, 1947) *Dean of the Summer Session and
Professor of History*
B.A., Wake Forest; M.A., Rutgers; Ph.D., Duke.

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of the Board of Trustees*
B.S., North Carolina; C.P.A., North Carolina.

CARLOS O. HOLDER (1969) *Assistant to the Treasurer*
B.B.A., Wake Forest.

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GRADY S. PATTERSON (1924) *Registrar*
B.A., Wake Forest.

MRS. MARGARET R. PERRY (1947) *Associate Registrar*
B.S., South Carolina.

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B.B.A., Wake Forest.

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B.A., North Carolina.

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and Financial Aid*
B.S., Wake Forest.

ROSS A. GRIFFITH (1966) *Assistant Director of Admissions*
B.S., Wake Forest.

UNIVERSITY LIBRARIES

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B.A., Boston University; M.A., Yale; B.S. in L.S., North Carolina.

MRS. VIVIAN LUNSFORD WILSON (1960) *Law Librarian*
A.B., Coker; B.S. in L.S., George Peabody.

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School of Medicine*
B.A., M.A. in L.S., Indiana.

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B.S., Murray State University; M.A., George Peabody.

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B.A., LL.B., Wake Forest; B.D., Southeastern Baptist Theological Seminary; S.T.M.,
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Director of the Baptist Student Union*
B.S. Ed., University of Virginia; B.D., Union Theological Seminary.

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DAVID ALLEN HILLS (1960) *Director of the Center for Psychological
Services and Associate Professor of Psychology*
A.B., Kansas; M.A., Ph.D., Iowa.

DAVID W. CATRON (1963) *Associate Director of the Center for
Psychological Services and Associate Professor of Psychology*
B.A., Furman; Ph.D., Peabody.

MRS. JUDITH L. HOMER (1969) *Counselor*
B.S.N., Michigan; M.A., Wake Forest.

UNIVERSITY HEALTH SERVICE

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M.D., Bowman Gray.
- MARY ANN HAMPTON TAYLOR (1961) *Assistant Medical Director and
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B.S., Wake Forest; M.D., Bowman Gray.
- ANDREW J. CRUTCHFIELD (1968) *Consultant in Clinical Services*
B.S., Wake Forest; M.D., Virginia.

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Director of Communications*
B.A., Wake Forest.
- GEORGE WILLIAM JOYNER, JR. (1969) *Director of Alumni Affairs*
B.A., Wake Forest.
- JAMES FLOYD FLETCHER (1971) *Director of Development*
B.A., Wake Forest.
- T. SLOANE GUY, JR. (1970) *Director of Deferred Gifts Program*
B.A., L.H.D., Wake Forest; B.D., Yale.
- MRS. LINDA CARTER LEE (1970) *Editor of University Magazine
and Assistant in Communications*
B.A., Wake Forest.
- J. WILLIAM STRAUGHAN, JR. (1969) *Assistant in Public Affairs*
B.A., Wake Forest; B.D., Union Theological Seminary.

OFFICE OF THE DIRECTOR OF ATHLETICS

- G. EUGENE HOOKS (1956) *Director of Athletics and Associate
Professor of Physical Education*
B.S., Wake Forest; M.Ed., North Carolina; Ed.D., George Peabody.
- JESSE I. HADDOCK (1952, 1954) *Assistant Director of Athletics*
B.S., Wake Forest.
- BOBBY J. BATSON (1970) *Sports Information Director*

THE PHYSICAL PLANT

- HAROLD S. MOORE (1953) *Director of the Physical Plant*
B.M.E., Virginia.
- ROYCE R. WEATHERLY (1947) *Superintendent of Buildings*
- MELVIN Q. LAYTON (1951) *Superintendent of Grounds*
B.S., Wake Forest.
- THOMAS P. GRIFFIN (1956) *Director of Residences*
- ROBERT EDWIN MARSHALL (1969) *Supervisor of Special Services*

OTHER ADMINISTRATIVE OFFICIALS

- IVEY C. GENTRY (1949) *Director of the Office for Research
and Professor of Mathematics*
B.S., Wake Forest; B.S., New York; M.A., Ph.D., Duke.

- PAUL M. GROSS, JR. (1959) *Coordinator of the Honors Program and
Associate Professor of Chemistry*
B.S., Duke; Ph.D., Brown.
- DONALD O. SCHOONMAKER (1965) *Director of the Winter Term and
Associate Professor of Political Science*
B.A., Wake Forest; M.A., Ph.D., Princeton.
- CHARLES M. ALLEN (1941) *Director of Concerts and Lectures and
Professor of Biology*
B.S., M.A., Wake Forest; Ph.D., Duke.
- THOMAS M. ELMORE (1962) *Director of Counselor Education and
Associate Professor of Educational
and Counseling Psychology*
B.A., Wake Forest; M.A., George Peabody; Ph.D., Ohio State.
- JERRY A. HALL (1958, 1961, 1967) *Director of Undergraduate Teacher
Education and Associate Professor of Education*
B.A., Wake Forest; M.A., Ed.D., George Peabody.
- JULIUS H. CORPENING (1969) *Executive Director of Academic
Urban Affairs Consortium*
B.A., Wake Forest; B.D., Southern Baptist Theological Seminary.
- SAMUEL H. LONG (1970) *Staff Associate, Academic
Urban Affairs Consortium*
B.A., Wake Forest.
- JOHN F. REED (1963) *Director of Placement*
A.B., Pennsylvania State; M.A., Washington and Jefferson.
- ROBERT M. ALLEN (1966) *Director of Printing Services*
B.A., Vanderbilt.
- RICHARD T. CLAY (1956) *Manager of the College Book Store*
B.B.A., Wake Forest.

*PROFESSORS EMERITI

- CHARLES S. BLACK (1919-20; 1925-65) *Professor Emeritus of Chemistry*
B.A., M.A., Wake Forest; M.A., Virginia; Ph.D., Wisconsin.
- COY C. CARPENTER (1926-67) *Vice President Emeritus for
Medical Affairs and Professor Emeritus of Pathology*
B.A. in Medicine, Wake Forest; M.D., Syracuse University School of Medicine.
- FORREST W. CLONTS (1922-24; 1925-67) *Professor Emeritus of History*
B.A., Wake Forest; M.A., Ohio State.
- MRS. ETHEL^f T. CRITTENDEN (1915-1946) *Librarian Emerita*
- J. ALLEN EASLEY (1928-1963) *Professor Emeritus of Religion*
B.A., D.D., Furman; Th.M., Southern Baptist Theological Seminary.
- EDGAR ESTES FOLK (1936-67) *Professor Emeritus of English*
B.A., Wake Forest; M.S., Columbia; Ph.D., George Peabody.
- RALPH CYRUS HEATH (1954-1969) *Professor Emeritus of Marketing*
Charles H. Babcock School of Business Administration
A.B., Princeton; M.B.A., D.B.A., Indiana.
- OWEN F. HERRING (1946-1963) *Professor Emeritus of Religion*
B.A., M.A., Wake Forest; Th.M., Th.D., Southern Baptist Theological Seminary;
D.D., Georgetown College.
- LOIS JOHNSON (1942-1962) *Dean of Women Emerita*
B.A., Meredith; M.A., North Carolina.
- HUBERT A. JONES (1908-1959) *Professor Emeritus of Mathematics*
B.A., M.A., LL.B., Wake Forest.
- HENRY BROADUS JONES (1924-1959) *Professor Emeritus of English*
B.A., Wake Forest; M.A., Ph.D., Chicago.
- HAROLD DAWES PARCELL (1935-1970) *Professor Emeritus of French*
B.A., North Carolina; M.A., Ph.D., Harvard.
- KENNETH TYSON RAYNOR (1926-1961) *Associate Professor Emeritus
of Mathematics*
B.A., Wake Forest; M.A., Duke.
- ALBERT C. REID (1917-18; 1920-65) *Professor Emeritus of Philosophy*
B.A., M.A., Wake Forest; Ph.D., Cornell.
- HAROLD WAYLAND TRIBBLE (1950-67) *President Emeritus*
B.A., Richmond; Th.M., Th.D., Southern Baptist Theological Seminary; M.A., Louisville; Ph.D., Edinburgh; D.D. Stetson; LL.D., Union University, Wake Forest, Richmond, Duke, North Carolina.

* Dates following names indicate period of service.

*INSTRUCTION

- CHARLES M. ALLEN *Professor of Biology and Director of
Concerts and Lectures*
(See Administration)
- RALPH D. AMEN (1962) *Associate Professor of Biology*
A.B., A.M., University of Northern Colorado; M.B.S., Ph.D., Colorado.
- JOHN LOUIS ANDRONICA (1969) *Assistant Professor of
Classical Languages*
B.A., Holy Cross; M.A., Boston College; Ph.D., Johns Hopkins.
- JOHN WILLIAM ANGELL (1955) *Professor of Religion*
B.A., Wake Forest; Th.M., Southern Baptist Theological Seminary; S.T.M., Andover
Newton Theological School; Th.D., Southern Baptist Theological Seminary.
- ANDREW LEWIS AYCOCK (1928) *Professor of English*
B.A., Wake Forest; M.A., Tulane.
- H. WALLACE BAIRD (1963) *Associate Professor of Chemistry*
A.B., Berea; Ph.D., Wisconsin.
- EUGENE PENDLETON BANKS (1954) *Professor of Sociology
and Anthropology*
B.A., Furman; M.A., Ph.D., Harvard.
- JAMES PIERCE BAREFIELD (1963) *Assistant Professor of History*
B.A., M.A., Rice; Ph.D., Johns Hopkins.
- RICHARD CHAMBERS BARNETT (1961) *Associate Professor of History*
B.A., Wake Forest; M.Ed., Ph.D., North Carolina.
- HAROLD M. BARROW (1948) *Professor of Physical Education*
A.B., Westminster; M.A., Missouri; P.E.D., Indiana.
- JOHN V. BAXLEY (1968) *Assistant Professor of Mathematics*
B.S., M.S., Georgia Tech.; Ph.D., Wisconsin.
- ROBERT CLARENCE BECK (1959) *Professor of Psychology*
B.A., Ph.D., Illinois.
- VERYL E. BECKER (1969) *Assistant Professor of Biology*
B.S., Gustavus Adolphus; M.S., South Dakota State; Ph.D., Michigan State.
- RICHARD GORDON BELL (1965) *Professor of Law*
B.A., Kentucky; J.D., LL.M., Western Reserve.
- MERRILL G. BERTHRONG *Associate Professor of History and Director
of Libraries*
(See Administration)
- JAMES CAREY BLALOCK (1950) *Associate Professor of Chemistry*
B.S., M.A., Wake Forest; Ph.D., Florida.
- DALE E. BONNETTE (1970) *Instructor in English*
A.B., M.A., Missouri.
- MRS. KAYE SHUGART BOURQUIN (1967) *Instructor in French*
B.A., Salem; M.A., Trinity.
- PASCO MIDDLETON BOWMAN, II *Professor of Law and
Dean of the School of Law*
(See Administration)
- STERLING M. BOYD (1968) *Associate Professor of Art History*
B.A., Sewanee; M.A., Oberlin; Ph.D., Princeton.

* Names are arranged alphabetically. Date following names indicates year of appointment. More than one date indicates separate appointments.

Faculty

- ROBERT W. BREHME (1959) *Professor of Physics*
B.S., Roanoke; M.S., Ph.D., North Carolina.
- DALMA ADOLPH BROWN (1941) *Associate Professor of English*
B.A., M.A., North Carolina.
- DAVID B. BROYLES (1966) *Assistant Professor of Political Science*
B.A., Chicago; B.A., Florida; M.A., Ph.D., UCLA.
- GEORGE MCLEOD BRYAN (1956) *Professor of Religion*
B.A., M.A., Wake Forest; B.D., Ph.D., Yale.
- *SHASTA M. BRYANT (1966) *Associate Professor of Spanish*
A.B., M.A., Ph.D., North Carolina
- JULIAN C. BURROUGHS, JR. (1958) *Professor of Speech Communication and Theater Arts*
B.A., Wake Forest; M.A., Ph.D., Michigan.
- WILLIAM E. CAGE (1967) *Assistant Professor of Economics, Charles H. Babcock School of Business Administration*
B.A., Rockford; Ph.D., Virginia
- RUTH F. CAMPBELL (1962) *Associate Professor of Spanish*
B.A., Woman's College, North Carolina; M.A., North Carolina; Ph.D., Duke.
- ROBERT S. CARLSON *Professor of Business Administration and Dean of the Charles H. Babcock School of Business Administration*
(See Administration)
- BERT BONO CARRILLO (1970) *Visiting Lecturer in Spanish*
B.A., M.A., Ph.D., Arizona.
- JOHN ARCHER CARTER, JR. (1961) *Associate Professor of English*
B.A., Virginia; M.A., Ph.D., Princeton.
- ROBERT L. CASE (1970) *Assistant Professor of Physical Education*
B.S., Western Illinois; M.S., Ph.D., Illinois.
- DOROTHY CASEY (1949) *Assistant Professor of Physical Education*
B.S., Woman's College, North Carolina; M.A., North Carolina.
- DAVID W. CATRON (1963) *Associate Professor of Psychology and Associate Director of the Center for Psychological Services*
B.A., Furman; Ph.D., Peabody.
- JOHN H. CLOUGHERTY (1969) *Instructor in Physical Education*
B.S., Youngstown State; M.Ed., Kent State.
- ELTON C. COCKE (1938) *Professor of Biology*
B.S., M.S., Ph.D., Virginia.
- JOHN E. COLLINS (1970) *Assistant Professor of Religion*
B.S., M.S., Tennessee; B.D., Southeastern Baptist Theological Seminary; Ph.D., Princeton.
- LEON P. COOK, JR. (1957) *Associate Professor of Accounting, Charles H. Babcock School of Business Administration*
B.S., Virginia Polytechnic; M.S. Tennessee; C.P.A., Arkansas.
- LEON HENRY CORBETT, JR. *Associate Professor of Law*
(See Administration)
- JULIUS H. CORPENING (1970) *Lecturer in Management, Babcock Graduate School of Management of the Charles H. Babcock School of Business Administration*
(See Administration)

* Absent on leave, 1970-71.

- CYCLONE COVEY (1968) *Professor of History*
B.A., Ph.D., Stanford
- MARJORIE CRISP (1947) *Assistant Professor of Physical Education*
B.S., Appalachian State Teachers College; M.A., George Peabody.
- JAMES A. DERVIN (1970) *Instructor in English*
B.A., M.A., St. Louis.
- JOHN F. DIMMICK (1961) *Associate Professor of Biology*
B.S., M.S., Western Illinois; Ph.D., Illinois.
- RONALD V. DIMOCK, JR. (1970) *Assistant Professor of Biology*
B.A., New Hampshire; M.S., Florida State; Ph.D., California.
- HUGH WILLIAM DIVINE (1954) *Professor of Law*
B.S., Georgia State College for Men; M.A., Louisiana State; J. D., Emory; LL.M., S.J.D., Michigan.
- JUSTUS C. DRAKE (1946) *Assistant Professor of English*
B.A., M.A., Wake Forest.
- ROBERT H. DUFORT (1961) *Professor of Psychology*
B.A., Ph.D., Duke.
- ROBERT ALLEN DYER *Associate Professor of Religion and Assistant Dean*
(See Administration)
- JOHN R. EARLE (1963) *Associate Professor of Sociology and Anthropology*
B.A., Wake Forest; M.A., Ph.D., North Carolina.
- CRONJE B. EARP (1940) *Professor of Classical Languages and Literature*
B.A., Wake Forest; M.A., Ph.D., Columbia.
- W. FRANKLIN EDWARDS (1970) *Assistant Professor of Management, Babcock Graduate School of Management of the Charles H. Babcock School of Business Administration*
B.S., Clemson; M.B.A., Indiana; Ph.D., Florida.
- LEO ELLISON, JR. (1957) *Assistant Professor of Physical Education; Swimming Coach*
B.S., M.S., Northwestern State College.
- THOMAS M. ELMORE (1962) *Associate Professor of Educational and Counseling Psychology; Director of Counselor Education; Associate Director for Counselor Training of the Center for Psychological Services*
(See Administration)
- GERALD W. ESCH (1965) *Associate Professor of Biology*
B.S., Colorado College; M.S., Ph.D., University of Oklahoma.
- DAVID K. EVANS (1966) *Associate Professor of Sociology and Anthropology*
B.S., Tulane; Ph.D., California.
- PHILIPPE R. FALKENBERG (1969) *Assistant Professor of Psychology*
B.A., Queen's (Ontario); Ph.D., Duke.
- ESRON MCGRUDER FARIS, JR. (1957, 1967) *Professor of Law*
B.A., J.D., Washington and Lee; LL.M., Duke.
- WILLIAM D. FAULHABER (1969) *Instructor in English*
B.A., Montclair State; M.A., Virginia.
- JACK D. FLEER (1964) *Associate Professor of Political Science*
A.B., Oklahoma Baptist; M.S., Florida State; Ph.D., North Carolina.

Faculty

- WALTER S. FLORY (1963) *Babcock Professor of Botany; Director of Reynolda Gardens*
B.A., Bridgewater; M.A., Ph.D., Virginia; Sc.D., Bridgewater.
- DOYLE RICHARD FOSSO (1964) *Associate Professor of English*
A.B., Harvard; M.A., Michigan; Ph.D., Harvard.
- RALPH S. FRASER (1962) *Professor of German*
B.A., Boston; M.A., Syracuse; Ph.D., Illinois.
- LOUISA FREEMAN (1968) *Instructor in French*
B.A., Salem; M.A., Emory.
- ROLAND L. GAY (1933) *Associate Professor of Mathematics*
B.S., Wake Forest; M.S., North Carolina State.
- IVEY C. GENTRY (1949) *Professor of Mathematics*
(See Administration)
- CHRISTOPHER GILES (1951) *Assistant Professor of Music*
B.S., Florida Southern; M.A., George Peabody.
- ADAM S. GILMOUR (1970) *Major, Field Artillery, U. S. Army; Assistant Professor of Military Science*
B.S., The Citadel.
- BALKRISHNA GOVIND GOKHALE (1960) *Professor of History and Asian Studies*
B.A., M.A., Ph.D., Bombay.
- THOMAS FRANK GOSSETT (1967) *Professor of English*
B.A., M.A., Southern Methodist; Ph.D., Minnesota.
- GEORGE J. GRIFFIN (1948) *Professor of Religion*
B.A., Wake Forest; Th.B., Southern Baptist Theological Seminary; B.D., Yale; Ph.D., Edinburgh.
- MRS. PENNY CRAWFORD GRIFFIN (1969) *Instructor in Art History*
B.A., Appalachian; M.A., Florida State.
- PAUL M. GROSS, JR. *Associate Professor of Chemistry and Coordinator of The Honors Program*
(See Administration)
- WILLIAM H. GULLEY (1966) *Associate Professor of Sociology and Anthropology*
B.A., M.A., Ph.D., North Carolina.
- DAVID WARREN HADLEY (1966) *Instructor in History*
B.A., Wake Forest; A.M., Harvard.
- DAVID L. HALL (1970) *Instructor in Mathematics*
A.B., Harvard; M.A., Wake Forest.
- JERRY A. HALL (1958, 1961, 1967) *Associate Professor of Education*
(See Administration)
- EMMETT WILLARD HAMRICK (1952) *Professor of Religion*
A.B., North Carolina; Ph.D., Duke.
- PHILLIP J. HAMRICK, JR. (1956) *Professor of Chemistry*
B.S., Morris Harvey; Ph.D., Duke.
- CARL V. HARRIS (1956) *Professor of Classical Languages and Literature*
B.A., Wake Forest; B.D., S.T.M., Yale; Ph.D., Duke.
- ROBERT WADE HASH (1969) *Assistant Professor of Classical Languages*
B.A., Richmond; Ph.D., Vanderbilt.
- YSBRAND HAVEN (1965) *Professor of Physics*
Candidate, Doctorandus, Doctor, Groningen.

- MERWYN A. HAYES *Associate Professor of Speech Communication and Theater Arts*
B.A., Macalester; M.A., Oregon; Ph.D., Illinois.
- NATHAN RICK HEATLEY (1970) *Instructor in Classical Languages*
B.A., Baylor; M.A., Texas.
- ROGER A. HEGSTROM (1969) *Assistant Professor of Chemistry*
A.B., St. Olaf; A.M., Ph.D., Harvard.
- ROBERT MEREDITH HELM (1940) *Professor of Philosophy*
B.A., Wake Forest; M.A., Ph.D., Duke.
- J. EDWIN HENDRICKS (1961) *Associate Professor of History*
B.A., Furman; M.A., Ph.D., Virginia.
- MARCUS B. HESTER (1963) *Associate Professor of Philosophy*
B.A., Wake Forest; Ph.D., Vanderbilt.
- DAVID ALLEN HILLS (1960) *Associate Professor of Psychology and Director of the Center for Psychological Services*
A.B., Kansas; M.A., Ph.D., Iowa.
- HUGH K. HIMAN (1965) *Assistant Professor of Economics, Charles H. Babcock School of Business Administration*
B.A., M.A., Miami; Ph.D., Illinois.
- JOSEPH H. HOFFMAN, JR. (1969) *Colonel, Infantry, U. S. Army; Professor of Military Science*
B.S., U. S. Military Academy.
- WESLEY D. HOOD (1968) *Assistant Professor of Education*
B.S., Univ. of Washington; M.Ed., North Dakota; Ed.D., Ball State.
- HERBERT HOROWITZ *Associate Professor of Psychology*
B.A., Brooklyn; M.S., New School for Social Research; M.A., Ph.D., Wisconsin.
- FRED L. HORTON, JR. (1970) *Visiting Assistant Professor of Religion*
A.B., North Carolina; B.D., Union Theological Seminary; Ph.D., Duke.
- WILLIAM L. HOTTINGER (1970) *Assistant Professor of Physical Education*
B.S., Pennsylvania State College; M.S., Ph.D., Illinois.
- FREDRIC T. HOWARD (1966) *Assistant Professor of Mathematics*
B.A., M.A., Vanderbilt; Ph.D., Duke.
- CALVIN R. HUBER (1962) *Associate Professor of Music*
B.M., M.M., Wisconsin; Ph.D., North Carolina.
- DELMER P. HYLTON (1949) *Professor of Accounting, Charles H. Babcock School of Business Administration*
B.S., M.B.A., Indiana; C.P.A., Indiana.
- ALBERT HYNDMAN (1970) *Visiting Professor of Economics, Charles H. Babcock School of Business Administration*
B.A., M.A., Oxford.
- OLIVER B. INGRAM, JR. *Captain, Infantry, U. S. Army; Assistant Professor of Military Science*
B.S., Auburn.
- MRS. PATRICIA ADAMS JOHNSON (1969) *Instructor in English*
B.A., Winston-Salem State; M.A., Wake Forest.
- NORMAN R. JONES (1970) *Captain, Infantry, U. S. Army; Assistant Professor of Military Science*
B.S., U. S. Military Academy.
- ALONZO W. KENION (1956) *Associate Professor of English*
A.B., M.A., Ph.D., Duke.

Faculty

- WILLIAM C. KERR (1970) *Assistant Professor of Physics*
B.S., Wooster; Ph.D., Cornell.
- HARRY LEE KING, JR. (1960) *Professor of Spanish*
B.A., Richmond; M.A., Ph.D., North Carolina.
- RAYMOND E. KUHN (1968) *Assistant Professor of Biology*
B.S., Carson Newman; Ph.D., Tennessee.
- HENRY CONRAD LAUERMAN (1963) *Professor of Law*
B.S., U.S. Naval Academy; J.D., LL.M., Georgetown; LL.M., Duke.
- ROBERT E. LEE (1946) *Professor of Law*
B.S., LL.B., Wake Forest; M.A. in Public Law, Columbia; LL.M., S.J.D., Duke.
- CHARLES M. LEWIS (1968) *Assistant Professor of Philosophy*
B.A., Wake Forest; Ph.D., Vanderbilt; Th.M., Harvard.
- MARVIN D. LOPER (1970) *Assistant Professor of Management,
Babcock Graduate School of Management of the
Charles H. Babcock School of Business Administration*
B.S., New Mexico; M.S., California State at San Diego; Ph.D., U.C.L.A.
- ROBERT WILLIAM LOVETT (1962, 1968) *Assistant Professor of English*
B.A., Oglethorpe, M.A., Ph.D., Emory.
- WILLIAM V. LUCKIE (1969) *Instructor in Accounting,
Charles H. Babcock School of Business Administration*
B.S., Alabama; M.B.A., Mississippi.
- ARTHUR L. LYTTON-SELLS (1970) *Visiting Lecturer in French*
B.A., M.A., Cambridge; Doctorat, Paris.
- NANCY JANE MCCASKEY (1969) *Instructor in English*
B.A., Marshall; M.A., North Carolina.
- JAMES C. McDONALD (1960) *Associate Professor of Biology*
B.A., Washington University, St. Louis; M.A., Ph.D., Missouri.
- THANE McDONALD (1941) *Professor of Music*
B.M., M.M., Michigan; Ed.D., Teachers College, Columbia.
- JAMES G. McDOWELL (1965) *Associate Professor of History*
B.A., Colgate; Ph.D., Johns Hopkins.
- ANTONIO MASO (1970) *Visiting Lecturer in Spanish*
Licencia, Valencia.
- DON M. MAULTSBY (1970) *Instructor in Sociology and Anthropology*
B.A., Wofford.
- J. GAYLORD MAY (1961) *Associate Professor of Mathematics*
B.S., Wofford; M.A., Ph.D., Virginia.
- W. GRAHAM MAY (1961) *Associate Professor of Mathematics*
B.S., Wofford; M.A., Ph.D., Virginia.
- JASPER L. MEMORY, JR. (1929) *Professor of Education*
B.A., Wake Forest; M.A., Columbia.
- J. RODNEY MEYER (1970) *Instructor in English*
B.A., Brown; M.A., Minnesota.
- JEAN-MICHEL MICHELET (1970) *Visiting Lecturer in French*
Licence, D.E.S., Agrégation, Paris.
- HARRY B. MILLER (1947) *Professor of Chemistry*
B.S., Ph.D., North Carolina.
- JOSEPH O. MILNER (1969) *Assistant Professor of English*
B.A., Davidson; M.A., Ph.D., North Carolina.

- CARLTON T. MITCHELL (1961)** *Associate Professor of Religion*
B.A., Wake Forest; B.D., Yale; S.T.M., Union Theological Seminary, New York;
Ph.D., New York University.
- JOHN C. MOORHOUSE** *Assistant Professor of Economics,*
Charles H. Babcock School of Business Administration
A.B., Wabash; M.A., Ph.D., Northwestern.
- CARL C. MOSES (1964)** *Associate Professor of Political Science*
A.B., William and Mary; M.A., Ph.D., North Carolina.
- THOMAS E. MULLEN** *Associate Professor of History*
and Dean of the College
(See Administration)
- RONALD E. NOFTLE (1967)** *Assistant Professor of Chemistry*
B.S., New Hampshire; Ph.D., Washington.
- JOHN W. NOWELL (1945)** *Professor of Chemistry*
B.S., Wake Forest; Ph.D., North Carolina.
- JAMES C. O'FLAHERTY (1947)** *Professor of German*
B.A., Georgetown College; M.A., Kentucky; Ph.D., Chicago.
- AULSEY THOMAS OLIVE (1961)** *Associate Professor of Biology*
B.S., Wake Forest; M.S., Ph.D., North Carolina State.
- JEANNE OWEN** *Professor of Business Law,*
and Director of the B.B.A. Program, Charles H.
Babcock School of Business Administration
(See Administration)
- JOHN ERNEST PARKER, JR. (1950)** *Professor of Romance Languages*
and Education
B.A., Wake Forest; A.M., Ph.D., Syracuse.
- CLARENCE H. PATRICK (1946)** *Professor of Sociology and Anthropology*
B.A., Wake Forest; B.D., Andover Newton; Ph.D., Duke.
- PETER R. PEACOCK (1970)** *Instructor in Management,*
Babcock Graduate School of Management of the
Charles H. Babcock School of Business Administration
A.B., Northeastern; M.S., Georgia Tech.
- PHILIP P. PERRICONE** *Instructor in Sociology and Anthropology*
B.S., M.A., University of Florida.
- PERCIVAL PERRY** *Professor of History and Dean of the Summer Session*
(See Administration)
- ELIZABETH PHILLIPS (1957)** *Professor of English*
A.B., Woman's College, North Carolina; M.A., State University of Iowa; Ph.D.,
Pennsylvania.
- RUTH P. PHILLIPS (1968)** *Research Associate in Biology*
Ph.D., Louisiana State.
- M. ELIZABETH PLACE (1969)** *Instructor in German*
A.B., Duke; M.A., Vanderbilt.
- EDWARD H. PLATTE (1968)** *Instructor in History*
B.A., Princeton; M.A., Stanford.
- MICHAEL L. POLLOCK (1967)** *Assistant Professor of Physical Education*
B.S., Arizona; M.S., Ph.D., Illinois.
- JOYCE E. POTTER (1969)** *Instructor in English*
B.A., Carson-Newman; M.A., Tennessee.

Faculty

- LEE HARRIS POTTER (1965) *Associate Professor of English*
B.A., M.A., Ph.D., North Carolina.
- HERMAN J. PRESEREN (1953) *Professor of Education*
B.S., State Teachers College, California, Pennsylvania; M.A., Teachers College, Columbia; Ph.D., North Carolina.
- GREGORY D. PRITCHARD (1968) *Associate Professor of Philosophy*
B.A., Oklahoma Baptist; B.D., Southern Baptist Theol. Seminary; Ph.D., Columbia.
- RAY PROHASKA (1969) *Artist in Residence*
- MRS. BEULAH LASSITER RAYNOR (1946) *Assistant Professor of English*
B.A., East Carolina Teachers College; M.A., Wake Forest.
- J. DON REEVES (1967) *Associate Professor of Education*
A.B., Mercer; B.D., Th.M., Southern Baptist Theological Seminary; Ed.D., Columbia.
- JON M. REINHARDT (1964) *Assistant Professor of Political Science*
B.A., Birmingham-Southern; M.A., Ph.D., Tulane.
- HAROLD C. RHEA (1968) *Assistant Professor of Physical Education and Cross Country and Track Coach*
B.S., Midland Lutheran; M.A., Ed.D., Colorado State.
- CLAUD HENRY RICHARDS, JR. (1952) *Professor of Political Science*
B.A., Texas Christian; M.A., Ph.D., Duke.
- CHARLES L. RICHMAN (1968) *Assistant Professor of Psychology*
B.A., Virginia; M.S., Yeshiva; Ph.D., Cincinnati.
- MRS. MARY FRANCES McFEETERS ROBINSON (1952) *Professor of French*
B.A., Wilson College; M.A., Ph.D., Syracuse.
- PAUL S. ROBINSON (1952) *Associate Professor of Music*
B.A., Westminster College; Mus.B., Curtis Institute of Music; M.Sac. Mus., D.Sac. Mus., School of Sacred Music, Union Theological Seminary.
- EVA MARIA RODTWITT (1966) *Lecturer in French*
Cand. Philol., Oslo.
- WILMER D. SANDERS (1954, 1964) *Associate Professor of German*
B.A., Muhlenberg; M.A., Ph.D., Indiana.
- JOHN W. SAWYER (1956) *Professor of Mathematics*
A.B., M.A., Wake Forest; M.A., Ph.D., Missouri.
- DONALD O. SCHOONMAKER (1965) *Associate Professor of Political Science and Director of the Winter Term*
(See Administration)
- FRANK L. SCOTT (1969) *Assistant Professor of Mathematics*
B.A., Tulane; M.A., Ph.D., Ohio State.
- KARL MYRON SCOTT (1955) *Professor of Management, Charles H. Babcock School of Business Administration*
B.A., Arkansas; M.S., Iowa State College; Ph.D., Illinois.
- RICHARD D. SEARS (1964) *Assistant Professor of Political Science*
A.B., Clark; M.A., Ph.D., Indiana.
- BEN M. SEELBINDER (1959) *Professor of Mathematics*
B.S., Mississippi Delta State College; M.A., Ph.D., North Carolina.
- TIMOTHY F. SELLNER (1970) *Assistant Professor of German*
B.A., Michigan; M.A., Wayne State; Ph.D., Michigan.
- BYNUM GILLETTE SHAW (1965) *Lecturer in Journalism*
B.A., Wake Forest.
- HOWARD WILLIAM SHIELDS (1958) *Professor of Physics*
B.S., North Carolina; M.S., Pennsylvania State; Ph.D., Duke.

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- FRANKLIN R. SHIRLEY (1948) *Professor of Speech Communication and Theater Arts*
B.A., Georgetown College; M.A., Columbia; Ph.D., Florida.
- ROBERT W. SHIVELY (1970) *Lecturer in Management, Babcock Graduate School of Management of the Charles H. Babcock School of Business Administration*
(See Administration)
- RICHARD LEE SHOEMAKER (1950) *Professor of Romance Languages*
B.A., Colgate; M.A., Syracuse; Ph.D., Virginia.
- ROBERT N. SHORTER (1958) *Associate Professor of English*
B.A., Union College; M.A., Ph.D., Duke.
- MICHAEL L. SINCLAIR (1968) *Instructor in History*
B.A., Wake Forest; M.A., Stanford.
- JAMES E. SIZEMORE (1953) *Professor of Law*
B.S., East Tennessee State; LL.B., Wake Forest; LL.M., New York University.
- DAVID L. SMILEY (1950) *Professor of History*
B.A., M.A., Baylor; Ph.D. Wisconsin.
- CHARLES W. SMITH (1969) *Instructor in Music*
B.M., Wyoming; M.A., New York University.
- J. HOWELL SMITH (1965) *Assistant Professor of History*
B.A., Baylor; M.A., Tulane; Ph.D., Wisconsin.
- *HENRY LAWRENCE SNUGGS (1945) *Professor of English*
B.A., Wake Forest; M.A., Ph.D., Duke.
- GUY E. SPEAR (1969) *Instructor in English*
B.A., M.A., Wyoming.
- JAMES A. STEINTRAGER (1969) *Associate Professor of Political Science*
B.A., Notre Dame; M.A., Ph.D., Chicago.
- HENRY SMITH STROUPE *Professor of History and Dean of the Graduate School*
(See Administration)
- ROBERT L. SULLIVAN (1962) *Associate Professor of Biology*
B.A., Delaware; M.S., Ph.D., North Carolina State.
- SAMUEL A. SYME, JR. (1965) *Associate Professor of Education*
A.B., Washington and Lee; A.M., Ed.D., Duke.
- CHARLES H. TALBERT (1963) *Associate Professor of Religion*
B.A., Howard; B.D., Southern Baptist Theological Seminary; Ph.D., Vanderbilt.
- E. MOWBRAY TATE (1967) *Visiting Professor of Religion and History*
B.A., Whitman; Ph.D., Columbia.
- HAROLD C. TEDFORD (1965) *Associate Professor of Speech Communication and Theater Arts*
B.A., Ouachita; M.A., Arkansas; Ph.D., Louisiana State.
- STANTON K. TEFFT (1964) *Associate Professor of Sociology and Anthropology*
B.A., Michigan State; M.S., Wisconsin; Ph.D., Minnesota.
- BRENDA ANN TEMPLETON (1969) *Instructor in Classical Languages*
B.A., Wake Forest.
- NEAL B. THORNTON (1967) *Assistant Professor of Political Science*
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* Died, June 12, 1970.

Faculty

- MRS. ANNE S. TILLET (1965) *Associate Professor of Romance Languages*
B.A., Carson-Newman; M.A., Vanderbilt; Ph.D., Northwestern University.
- LOWELL R. TILLET (1956) *Professor of History*
B.A., Carson-Newman; M.A., Columbia; Ph.D., North Carolina.
- PHYLLIS LOU TRIBLE (1963) *Associate Professor of Religion*
B.A., Meredith; Ph.D., Union Theological Seminary, Columbia.
- THOMAS J. TURNER (1952) *Professor of Physics*
B.S., North Carolina; M.S., Clemson; Ph.D., Virginia.
- LORRAINE VAN METER (1968) *Instructor in History*
B.A., M.A., U.C.L.A.
- ROBERT H. VORSTEG (1970) *Assistant Professor of Philosophy*
B.A., Florida State; M.A., Ph.D., Ohio State.
- MARCELLUS E. WADDILL (1962) *Associate Professor of Mathematics*
B.A., Hampden-Sydney; M.A., Ph.D., Pittsburgh.
- J. VAN WAGSTAFF (1964) *Associate Professor of Economics,
Charles H. Babcock School of Business Administration*
B.A., Randolph-Macon; M.B.A., Rutgers; Ph.D., Virginia.
- WINSTON W. WALKER, JR. (1970) *Assistant Professor of Mathematics*
B.A., Tulane; Ph.D., Georgia.
- FRANCES DAY WARDLAW (1969) *Instructor in Spanish*
B.A., Wooster; M.A. Illinois.
- WESTFORD D. WARNER (1968) *Captain, Armor, U. S. Army;
Assistant Professor of Military Science*
B.S., The Citadel.
- CARROLL W. WEATHERS *Professor of Law and Dean Emeritus
of the School of Law*
B.A., LL.B., Wake Forest.
- JAMES A. WEBSTER, JR. (1951, 1954) *Professor of Law*
B.S., LL.B., Wake Forest; S.J.D., Harvard.
- PETER D. WEIGL (1968) *Assistant Professor of Biology*
A.B., Williams; Ph.D., Duke.
- DAVID WELKER (1969) *Professor of Speech Communication
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B.A., M.A., University of Illinois; Ph.D., University of Minnesota.
- LARRY E. WEST (1969) *Assistant Professor of German*
A.B., Berea; Ph.D., Vanderbilt.
- FREDERICK M. WHITMEYER (1970) *Lecturer in Management,
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Charles H. Babcock School of Business Administration*
(See Administration)
- GEORGE P. WILLIAMS, JR. (1958) *Professor of Physics*
B.S., Richmond; M.S., Ph.D., North Carolina.
- JOHN EDWIN WILLIAMS (1959) *Professor of Psychology*
B.A., Richmond; M.A., Ph.D., Iowa.
- EDWIN GRAVES WILSON *Professor of English and Provost*
(See Administration)
- DONALD H. WOLFE (1968) *Assistant Professor of Speech Communication
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B.S., M.S., Southern Illinois; Ph.D., Cornell.

J. NED WOODALL (1969)

*Assistant Professor of
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B.A., M.A., Texas; Ph.D., Southern Methodist.

JOHN J. WOODMANSEE (1965)

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B.A., Westminster; M.A., Denver; Ph.D., Colorado.

RAYMOND L. WYATT (1956)

Associate Professor of Biology

B.S., Wake Forest; M.A., Ph.D., North Carolina.

WILFRED BUCK YEARNES, JR. (1945)

Professor of History

B.A., Duke; M.A., Georgia; Ph.D., North Carolina.

RICHARD L. ZUBER (1962)

Associate Professor of History

B.S., Appalachian; M.A., Emory; Ph.D. Duke.

PART TIME STAFF MEMBERS

- HTIN AUNG (1965) *Visiting Professor of English and Art
and Archaeology of Southeast Asia*
B.A., Rangoon; LL.B., LL.M., London; B.A., LL.B., Queens' College,
Cambridge; M.Litt., Ph.D., LL.D., Trinity College, Dublin; LL.D.,
Rangoon, Johns Hopkins, Vidyodaya University of Ceylon; L.H.D., Wake Forest.
- ALFRED T. BRAUER (1965) *Visiting Professor of Mathematics*
Ph.D., Berlin.
- FREDERICK L. BRONNER (1966) *Visiting Professor of History*
B.S., Union College; A.M., Ph.D., Harvard.
- MRS. MARY GWYN CAGE (1969) *Instructor in Physical Education*
B.F.A., North Carolina School of the Arts
- MRS. MARJORIE FELMET (1964) *Visiting Teacher of Piano*
A.B., North Carolina; M.A., Eastman School of Music.
- MRS. CAROLINE S. FULLERTON (1969) *Instructor in Speech
Communication and Theatre Arts*
B.A., Rollins; M.A., Texas Christian.
- LEWIS P. GOLDSTEIN (1970) *Instructor in Speech Communication
and Theatre Arts*
B.A., Long Island; M.S., State University of New York at Buffalo.
- MRS. SUSAN P. HARBIN (1966) *Instructor in Psychology*
B.A., M.A., Wake Forest.
- MRS. LUCILLE S. HARRIS (1957) *Instructor in Piano*
B.A., B.M., Meredith.
- MRS. BARBARA B. HILLS (1962) *Lecturer in Psychology*
B.A., Ph.D., Iowa.
- JOSEPH B. JOWERS (1970) *Lecturer in Sociology*
B.D., Drew; Ph.D., New School for Social Research.
- MRS. ETHEL LASHMIT KALTER (1960) *Artist in Residence, Voice*
Certificate, Westminster Choir College.
- HENRY S. LEWIS, JR. (1970) *Visiting Lecturer in Religion*
B.D., Andover-Newton Theological Seminary.
- JOE N. NORMAN (1970) *Visiting Lecturer in Accounting*
B.A., Philander Smith; M.B.A., C.P.A., Oklahoma.
- DAVID H. ROSE (1968) *Visiting Lecturer in Religion*
B.A., Cincinnati; B.H.L., M.H.L., Hebrew Union.
- JOHN W. SANDERS (1968) *Lecturer in Sociology*
B.A., M.A., Georgia.
- MRS. MARTHA STARK (1969) *Instructor in Physical Education*
B.S., Illinois State Normal.

THE BOWMAN GRAY SCHOOL OF MEDICINE

*PROFESSORS EMERITI

**CAMILLO ARTOM (1939-1963) *Professor Emeritus of Biochemistry*
 M.D., Padua; Ph.D., Messina; Ph.D., Palermo, Italy.

COY C. CARPENTER (1926-1967) *Vice President Emeritus for Medical Affairs and Professor Emeritus of Pathology*
 B.A., Wake Forest; M.D., Syracuse University School of Medicine.

FRED K. GARVEY (1941-1969) *Professor Emeritus of Urology*
 M.D., University of Cincinnati School of Medicine.

***ROBERT A. MOORE (1941-1953) *Associate Professor Emeritus of Orthopedic Surgery*
 M.D., North Carolina Medical College.

WILLIAM H. SPRUNT, JR. (1941-1963) *Professor Emeritus of Clinical Surgery*
 B.S., Davidson; M.D., University of Pennsylvania.

ROSCOE L. WALL (1942-1956) *Professor Emeritus of Anesthesiology*
 B.S., Wake Forest, M.D., Jefferson Medical College.

* Dates following names indicate period of service.

** Died, February 3, 1970.

*** Died, August 7, 1970.

FACULTY

THE BOWMAN GRAY SCHOOL OF MEDICINE

*INSTRUCTION

JEAN DOFFLEMOYER ACTON (1964) B.S., M.A., Ph.D., Virginia.	<i>Assistant Professor of Microbiology</i>
EBEN ALEXANDER, JR. (1949) A.B., North Carolina; M.D., Harvard.	<i>Professor of Neurosurgery</i>
KATHERINE H. ANDERSON (1969) B.S., Carnegie; M.D., Cornell.	<i>Associate Professor of Pediatrics</i>
STEPHEN G. ANDERSON (1970) M.D., Emory.	<i>Assistant Professor of Obstetrics and Gynecology</i>
JOHN R. AUSBAND (1952) B.A., Asbury; M.D., Bowman Gray.	<i>Professor of Otolaryngology</i>
ERNEST A. AUSTIN (1969) B.S., St. John's; M.D., Howard.	<i>Assistant Professor of Surgery</i>
RALPH W. BARNES (1969) B.S.E.E., Duke; M.S.E., Pennsylvania; Ph.D., Duke	<i>Research Instructor in Neurology</i>
DAVID L. BEAVERS (1955) B.S., Wake Forest; D.D.S., Northwestern.	<i>Assistant Professor of Dental Surgery</i>
DAVID MERRILL BIDDŪLPH (1970) B.S., Utah; M.S., Ph.D., Illinois.	<i>Assistant Professor of Anatomy</i>
EDWARD D. BIRD (1968) M.B., B.S., London; C.M., Canada.	<i>Associate Professor of Medicine Associate in Pharmacology</i>
DAMON D. BLAKE (1956) B.S., Washington; M.D., Columbia.	<i>Professor of Radiology</i>
WALTER J. BO (1960) B.S., M.S., Marquette; Ph.D., Cincinnati.	<i>Professor of Anatomy</i>
ROBERT F. BOND (1965) B.S., Ursinus; M.S., Ph.D., Temple.	<i>Associate Professor of Physiology</i>
WILLIAM H. BOYCE (1952) B.S., Davidson; M.D., Vanderbilt.	<i>Professor of Urology</i>
BILLY C. BULLOCK (1965) D.V.M., Texas A & M.	<i>Associate Professor of Laboratory Animal Medicine</i>
RICHARD L. BURT (1949) B.S., Springfield, M.S., Ph.D., Brown; M.D., Harvard.	<i>Professor of Obstetrics and Gynecology</i>
YI-CHI CHANG (1969) B.S., Southeast Missouri; Ph.D., Connecticut.	<i>Instructor in Pharmacology</i>
KENNETH P. CHEPENIK (1968) B.S., Ph.D., Florida.	<i>Assistant Professor of Anatomy</i>

Names are arranged alphabetically. Date following names indicates year of appointment. More than one date indicates separate appointments. Only full-time members of the faculty are included.

-
- THOMAS B. CLARKSON, JR. (1957) *Professor of Laboratory
Animal Medicine*
D.V.M., Georgia.
- GEORGE A. CLAY (1970) *Assistant Professor of Pharmacology*
A.B., Dartmouth; M.A., Ph.D., Boston.
- CARL M. COCHRANE (1967) *Professor of Psychology (Psychiatry)*
B.A., Guilford; Ph.D., North Carolina.
- M. ROBERT COOPER (1967) *Assistant Professor of Medicine*
B.S., North Carolina State; M.D., Bowman Gray.
- A. ROBERT CORDELL (1957) *Professor of Surgery
Associate in Physiology*
B.S., North Carolina; M.D., Johns Hopkins.
- ROBERT J. COWAN (1970) *Instructor in Radiology*
A.B., M.D., North Carolina.
- ROBERT W. COWGILL (1962) *Professor of Biochemistry*
B.A., Kansas; M.S., Rensselaer; Ph.D., Johns Hopkins.
- CLAIR E. COX, II (1963) *Associate Professor of Urology*
M.D., Michigan.
- CAROL C. CUNNINGHAM (1970) *Assistant Professor of Biochemistry*
B.S., M.S., Ph.D., Oklahoma State.
- PATRICK M. CUNNINGHAM (1967) *Instructor in Psychiatric Social Work*
B.S., Utah; M.S.W., Fordham.
- IVAN W. F. DAVIDSON (1961) *Professor of Pharmacology
Associate in Physiology*
B.S., Manitoba; M.A., Ph.D., Toronto.
- COURTLAND H. DAVIS, JR. (1952) *Professor of Neurosurgery*
A.B., George Washington; M.D., Virginia.
- LAWRENCE R. DECHATELET (1969) *Assistant Professor of Biochemistry*
B.S., M.S., Ph.D., Loyola.
- ADAM B. DENISON (1951) *Associate Professor of Physiology*
B.S., Hamilton; M.D., Western Reserve.
- ROBERT L. DIXON (1970) *Instructor in Radiology (Physics)*
B.S., Ph.D., South Carolina.
- HENRY DREXLER (1964) *Associate Professor of Microbiology*
B.S., Pennsylvania State; Ph.D., Rochester.
- JOHN H. EDMONDS, JR. (1970) *Associate Professor of Medicine*
B.S., Wake Forest; M.D., Bowman Gray.
- JOHN H. FELTS (1955) *Professor of Medicine*
B.S., Wofford; M.D., South Carolina.
- ROBERT A. FINCH (1970) *Assistant Professor of Anatomy*
A.B., Oberlin; Ph.D., Case Western Reserve.
- H. FRANCIS FORSYTH (1946) *Professor of Orthopedics*
A.B., M.D., Michigan.
- FLEETUS L. GOBBLE, JR. (1966) *Assistant Professor of Obstetrics
and Gynecology*
A.B., Duke; M.D., Bowman Gray.
- HAROLD O. GOODMAN (1958) *Professor of Medical Genetics (Pediatrics)*
B.A., M.A., Ph.D., Minnesota.

Faculty

- HAROLD D. GREEN (1945) *Gordon Gray Professor of Physiology*
Associate in Pharmacology
Associate in Medicine
 B.S., D.Sc., Wooster; M.D., Western Reserve.
- FRANK C. GREISS, JR. (1960) *Professor of Obstetrics and Gynecology*
 A.B., M.D., Pennsylvania.
- DAVID L. GROVES (1969) *Assistant Professor of Microbiology*
 B.S., Marietta; M.S., Ph.D., Wisconsin.
- MARCUS M. GULLEY (1959) *Assistant Professor of Psychiatry*
 B.S., Wake Forest; M.D., Bowman Gray.
- JOHN P. GUDSON, JR. (1967) *Associate Professor of*
Obstetrics and Gynecology
Associate in Microbiology
 B.A., M.D., Virginia.
- C. ALLEN HANEY (1968) *Assistant Professor of Sociology (Pediatrics)*
 B.S., Jacksonville; M.S., Ph.D., Florida State.
- JAMES A. HARRILL (1941) *Professor of Otolaryngology*
 B.S., Wake Forest; M.D., Pennsylvania.
- WILLIAM F. HARRISS (1971) *Instructor in Radiology*
 B.S., North Carolina; M.D., Bowman Gray.
- DONALD M. HAYES (1959) *Professor of Community Medicine*
Associate Professor of Medicine
 B.S., Wake Forest; M.D., Bowman Gray.
- JOHN T. HAYES (1966) *Professor of Orthopedics*
 B.S., M.D., Michigan.
- ROBERT N. HEADLEY (1963) *Associate Professor of Medicine*
 B.S., M.D., Maryland.
- LEO J. HEAPHY, JR. (1965) *Assistant Professor of Medicine*
Associate in Physiology
 A.B., Canisius; M.D., Buffalo.
- EUGENE R. HEISE (1969) *Assistant Professor of Microbiology*
Associate in Surgery
 B.S., Wittenberg; M.S., Iowa; Ph.D., Wake Forest.
- C. NASH HERNDON (1942) *Professor of Medical Genetics (Pediatrics)*
Associate in Medicine
Associate Dean for Research Development
 (See Administration)
- FELDA HIGHTOWER (1944) *Professor of Surgery*
 B.S., Wake Forest; M.D., Pennsylvania.
- ALANSON HINMAN (1952) *Associate Professor of Pediatrics*
 A.B., Stanford; M.D., Johns Hopkins.
- IVAN L. HOLLEMAN, JR. (1960) *Associate Professor of Pathology*
 B.S., Wake Forest; M.D., Bowman Gray.
- STEPHEN H. HOMER (1967) *Assistant Professor of Orthopedics*
 B.A., M.D., Pennsylvania.
- CHARLES M. HOWELL, JR. (1954) *Professor of Medicine (Dermatology*
and Allergy); Associate in Pathology
 B.S., Wake Forest; M.D., Pennsylvania.
- JULIUS A. HOWELL (1957) *Associate Professor of Surgery*
(Plastic Surgery); Lecturer in Medical Jurisprudence
 LL.B., B.S., Wake Forest; M.D., Pennsylvania.

- A. SHERRILL HUDSPETH (1963) *Associate Professor of Surgery*
M.D., Bowman Gray.
- FRANK H. HULCHER (1958) *Associate Professor of Biochemistry*
B.S., M.S., Ph.D., Virginia Polytechnic.
- CAROLYN C. HUNTLEY (1957) *Professor of Pediatrics*
A.B., Mount Holyoke; M.D., Duke.
- LUCILE W. HUTAFF (1948) *Professor of Community Medicine*
Assistant Professor of Medicine
B.S., Wisconsin; M.D., Rochester.
- PHILLIP M. HUTCHINS (1970) *Assistant Professor of Physiology*
(Biomedical Engineering)
B.S., North Carolina State; M.S., Ph.D., Wake Forest.
- THOMAS H. IRVING (1967) *Professor of Anesthesiology*
Associate in Pharmacology
B.A., Pennsylvania State; M.D., Hahnemann.
- FRANCIS M. JAMES, III (1968) *Assistant Professor of Anesthesiology*
B.S., Swarthmore; M.D., Hahnemann.
- PAUL MARSHALL JAMES, JR. (1970) *Assistant Professor of Surgery*
A.B., Swarthmore; M.D., Hahnemann.
- RICHARD JANEWAY (1966) *Associate Professor of Neurology*
B.A., Colgate; M.D., Pennsylvania.
- ARCHIE T. JOHNSON, JR. (1970) *Instructor in Pediatrics*
and Assistant Dean
(See Administration)
- FRANK R. JOHNSTON (1950) *Professor of Surgery*
B.S., Presbyterian; M.D., Duke.
- ZELMA A. KALNINS (1956) *Associate Professor of Clinical Cytology*
M.D., University of Latvia.
- JOHN S. KAUFMANN (1962, 1970) *Assistant Professor of Medicine*
and Pharmacology
B.S., Ph.D., Wake Forest; M.D., Bowman Gray.
- DAVID L. KELLY, JR. (1965) *Assistant Professor of Neurosurgery*
M.D., North Carolina.
- WESTON M. KELSEY (1946) *Professor of Pediatrics*
B.S., Hamilton; M.D., Johns Hopkins.
- ROBERT M. KERR (1966) *Assistant Professor of Medicine*
B.S., Bucknell; M.D., Cornell.
- BOK SOO KIM (1969) *Instructor in Pathology*
M.D., M.S., Yonsei University, Korea.
- WAYNE A. KRUEGER (1970) *Instructor in Anatomy*
B.S., M.S., John Carroll; Ph.D., Illinois.
- LOUIS S. KUCERA (1970) *Assistant Professor of Microbiology*
B.A., St. John's; M.S., Creighton; Ph.D., Missouri.
- KENT B. LAMOUREUX (1971) *Instructor in Radiology*
(Radiation Therapy)
A.B., Clark; M.D., Bowman Gray.
- MARIANO LA VIA (1968) *Professor of Pathology*
M.D., University of Messina, Italy.
- EVA S. LEAKE (1963) *Research Assistant Professor of Microbiology*
B.S., Universidad Autonoma de Mexico; M.S., Instituto Politecnico, Mexico, D. F.

Faculty

- NORMAN H. LEAKE (1959) *Research Associate Professor of Reproductive Biology (Organic Chemistry)*
Associate in Pharmacology
B.S., M.S., Ph.D., Virginia.
- NOEL D. M. LEHNER (1966) *Assistant Professor of Laboratory Animal Medicine*
B.S., D.V.M., Illinois.
- LAURENCE B. LEINBACH (1957) *Associate Professor of Radiology*
A.B., North Carolina; M.D., Harvard.
- MELVIN LEVITT (1970) *Associate Professor of Physiology*
B.S., M.A., Roosevelt; Ph.D., Michigan State.
- EDWARD M. LIEBERMAN (1968) *Assistant Professor of Physiology*
B.S., Tufts; M.A., Massachusetts; Ph.D., Florida.
- J. MAXWELL LITTLE (1941) *Professor of Pharmacology*
Associate in Physiology
B.A., M.S., Emory; Ph.D., Vanderbilt.
- FRANK R. LOCK (1941) *Professor of Obstetrics and Gynecology*
A.B., Cornell; M.D., Tulane.
- HUGH B LOFLAND, JR. (1952) *Professor of Pathology (Biochemistry)*
Associate in Biochemistry
B.S., M.S., Texas A & M; Ph.D., Purdue.
- SAMUEL H. LOVE (1955) *Associate Professor of Microbiology*
B.A., Virginia; M.S., Miami, Ohio; Ph.D., Pennsylvania.
- GEORGE C. LYNCH (1954) *Professor of Medical Illustrations*
- DAVID R. MACE (1967) *Professor of Family Sociology*
(Community Medicine)
B.S., London; B.A., M.A., Cambridge; Ph.D., Manchester.
- GEORGE S. MALINDZAK, JR. (1962) *Associate Professor of Physiology*
A.B., Western Reserve; M.S., Ph.D., Ohio State.
- JAMES F. MARTIN (1950) *Professor of Radiology*
A.B., Marietta; M.D., Western Reserve.
- EDWIN H. MARTINAT (1963) *Associate Professor of Orthopedics*
Associate Professor of Physical Medicine and Rehabilitation
M.D., Bowman Gray.
- C. DOUGLAS MAYNARD (1966) *Associate Professor of Radiology*
Associate in Neurology, and Associate Dean
(See Administration)
- CHARLES E. MCCALL (1968) *Assistant Professor of Medicine*
Associate in Pharmacology
B.S., Wake Forest; M.D., Bowman Gray.
- JAMES G. MCCORMICK (1970) *Research Assistant Professor of Otolaryngology (Experimental Psychology)*
B.S., Bucknell; M.A., Ph.D., Princeton.
- CHARLES E. MCCREIGHT (1954) *Associate Professor of Anatomy*
B.S., M.S., Ph.D., George Washington.
- WILLIAM M. MCKINNEY (1963) *Assistant Professor of Neurology*
Research Associate in Radiology
B.A., North Carolina; M.D., Virginia.
- ROBERT C. MCKONE (1961) *Associate Professor of Pediatrics*
B.S., North Dakota; M.D., Bowman Gray.

- WILLIAM T. MCLEAN, JR., (1966) *Associate Professor of Neurology*
Associate in Pediatrics
 B.S., Wake Forest; M.D., Bowman Gray.
- MANSON MEADS (1947) *Professor of Medicine and Vice President*
for Medical Affairs and Dean
 (See Administration)
- JESSE H. MEREDITH (1958) *Professor of Surgery*
 M.D., Western Reserve; A.B., Elon.
- ISADORE MESCHAN (1955) *Professor of Radiology*
 B.A., M.A., M.D., Western Reserve.
- ROBERT L. MICHIELUTTE (1970) *Research Assistant Professor*
of Sociology (Medicine)
 B.A., Knox; M.S., Ph.D., Florida State.
- EMERY C. MILLER, JR. (1955) *Professor of Medicine*
Associate in Physiology
 (See Administration)
- HENRY S. MILLER, JR. (1960) *Associate Professor of Medicine*
Associate in Physiology
 M.D., Bowman Gray.
- WILLIAM G. MONTGOMERY (1964) *Associate Professor of Urology*
 B.S., Wake Forest; M.D., Bowman Gray.
- JOHN MOOSSY (1967) *Professor of Pathology (Neuropathology)*
Associate in Neurology
 M.D., Tulane.
- ROBERT P. MOREHEAD (1936) *Professor of Pathology*
 B.S., M.A., B.S., Wake Forest; M.D., Jefferson.
- RICHARD T. MYERS (1950) *Professor of Surgery*
 A.B., North Carolina; M.D., Pennsylvania.
- QUENTIN N. MYRVIK (1963) *Professor of Microbiology*
 B.S., M.S., Ph.D., Washington.
- THOMAS F. O'BRIEN, JR. (1961) *Associate Professor of Medicine*
 B.A., Princeton; M.D., Yale.
- JAMES M. O'HARA (1970) *Instructor in Pathology*
 B.S., M.D., University of Miami.
- RUTH O'NEAL (1969) *Assistant Professor of Pediatrics*
 A.B., Transylvania; M.D., Medical College of Virginia; M.S., Minnesota.
- CHARLES E. PARKIN (1967) *Assistant Professor of Anesthesiology*
 B.S., Memphis State; M.D., Tennessee.
- RICHARD B. PATTERSON (1961) *Associate Professor of Pediatrics*
 B.S., Davidson; M.D., Bowman Gray.
- LARRY A. PEARCE (1969) *Assistant Professor of Neurology*
Associate in Pharmacology
 B.S., Wake Forest; M.D., Bowman Gray.
- WILLIAM S. PEARSON (1966) *Associate Professor of Psychiatry*
Associate in Obstetrics and Gynecology
 B.S., M.D., North Carolina.
- TIMOTHY C. PENNELL (1966) *Assistant Professor of Surgery*
 B.S., Wake Forest; M.D., Bowman Gray.
- JOHN M. PIXLEY (1961) *Assistant Professor of Psychiatry*
Associate in Community Medicine
 B.A., Denison; M.D., Ohio State.

Faculty

- LELAND E. POWERS (1968) *Professor of Community Medicine*
M.D., Iowa; M.S.P.H., Michigan.
- ROBERT W. PRICHARD (1951) *Professor of Pathology*
M.D., George Washington.
- RICHARD C. PROCTOR (1950) *Professor of Psychiatry*
B.S., Wake Forest; M.D., Bowman Gray.
- WILLIAM W. QUIVERS (1968) *Associate Professor of Pediatrics*
B.S., Hampton Institute; M.D., Meharry.
- MILTON RABEN (1970) *Associate Professor of Radiology
(Radiation Therapy)*
B.S., Rensselaer Polytechnic; M.D., Tuft's.
- ANGUS C. RANDOLPH (1948) *Associate Professor of Psychiatry*
B.A., Princeton; M.D., Virginia.
- CARLOS E. RAPELA (1959) *Professor of Physiology
Associate in Pharmacology*
M.D., Faculty of Medical Sciences of the University of Buenos Aires.
- CHARLES N. REMY (1962) *Professor of Biochemistry*
B.S., Syracuse; Ph.D., New York Upstate Medical Center.
- A. LEONARD RHYNE (1964) *Assistant Professor of Biostatistics*
B.A., North Carolina; Ph.D., North Carolina State.
- FREDERICK RICHARDS II (1970) *Instructor in Medicine*
B.S., Davidson; M.D., South Carolina.
- STEPHEN H. RICHARDSON (1963) *Associate Professor of Microbiology*
B.A., California; M.S., Ph.D., Southern California.
- R. WINSTON ROBERTS (1947) *Professor of Ophthalmology*
M.D., Duke.
- ROBERT E. ROBINSON, III (1967) *Research Assistant Professor
of Medicine*
B.S., George Washington; M.D., Virginia.
- JACK M. ROGERS (1970) *Assistant Professor of Psychiatry*
B.S., Alabama; M.D., Bowman Gray
- RICHARD W. ST. CLAIR (1967) *Assistant Professor of Pathology
(Physiology)*
B.S., Ph.D., Colorado State.
- DORIS Y. SANDERS (1966) *Assistant Professor of Pediatrics*
B.A., Austin Peay State; M.D., Vanderbilt.
- ROBERT T. SAVAGE (1970) *Instructor in Anesthesiology*
B.S., M.D., North Carolina
- C. GLENN SAWYER (1952) *Professor of Medicine*
M.D., Bowman Gray.
- MODESTO SCHARYJ (1962) *Associate Professor of Pathology*
B.A., Cracow; M.D., Vienna, Austria.
- HERMAN E. SCHMID, JR. (1960) *Professor of Physiology*
B.S., M.S., M.D., Illinois.
- LOUIS DES. SHAFFNER (1951) *Professor of Surgery*
A.B., North Carolina; M.D., Harvard.
- JERRY SIPE (1969) *Instructor in Biochemistry*
B.S., Lenoir Rhyne; Ph.D., Wake Forest.
- WILLIAM J. SPENCER (1967) *Assistant Professor of Medicine*
M.D., Bowman Gray.

Faculty

-
- CHARLES L. SPURR (1957) *Professor of Medicine*
B.S., Bucknell; M.S., M.D., Rochester.
- JOHN ALLEN STANLEY (1967) *Assistant Professor of Ophthalmology*
A.B., Dartmouth; M.D., Harvard.
- CORNELIUS F. STRITTMATTER, IV (1961) *Odus M. Mull Professor of Biochemistry*
B.S., Juniata; Ph.D., Harvard.
- NORMAN M. SULKIN (1952) *William Neal Reynolds Professor of Anatomy*
B.A., M.A., Alabama; Ph.D., Iowa.
- CHARAS SUWANWELA (1970) *Visiting Associate Professor of Neurosurgery*
M.D., Chulalongkorn, Thailand.
- JOHN D. TOLMIE (1970) *Assistant Professor of Anesthesiology*
B.A., Hobart; M.D., McGill, Montreal.
- JAMES F. TOOLE (1962) *Walter C. Teagle Professor of Neurology*
B.A., Princeton; M.D., Cornell; LL.B., La Salle.
- WALTER H. TRAUB (1968) *Assistant Professor of Pathology (Clinical Microbiology)*
M.D., Munich; M.S., Rochester.
- B. LIONEL TRUSCOTT (1968) *Professor of Neurology*
B.A., Drew; M.A., Syracuse; M.S., Ph.D., M.D., Yale.
- HENRY C. TURNER (1967) *Assistant Professor of Anesthesiology*
A.B., M.D., North Carolina.
- JOHN P. UMBERGER (1958) *Instructor in Psychiatry (Psychology)*
B.A., Roanoke; M.A., Iowa.
- HENRY L. VALK (1950) *Professor of Medicine*
A.B., North Carolina; M.D., Duke.
- CLARK E. VINCENT (1964) *Professor of Sociology (Obstetrics and Gynecology)*
A.B., M.A., Ph.D., California at Berkeley.
- B. MOSELEY WAITE (1967) *Assistant Professor of Biochemistry*
B.S., Rollins; Ph.D., Duke.
- MICHAEL J. WALSH (1971) *Assistant Professor of Pharmacology*
B.S., Maryland; Ph.D., Ohio State.
- WALTER A. WARD (1967) *Assistant Professor of Otolaryngology*
B.S., Wake Forest; M.D., Bowman Gray.
- L. DAVID WATERBURY (1969) *Assistant Professor of Pharmacology*
B.S., Michigan; Ph.D., Vermont.
- FINLEY C. WATTS (1967) *Research Instructor in Radiology (Health Physics)*
B.S., Wake Forest.
- LESTER EARL WATTS (1965) *Associate Professor of Medicine Associate in Community Medicine*
M.D., Bowman Gray.
- RICHARD G. WEAVER (1954) *Professor of Ophthalmology*
M.D., Washington.
- JOSEPH E. WHITLEY (1960) *Professor of Radiology*
B.S., Wake Forest; M.D., Bowman Gray.

Faculty

NANCY O'N. WHITLEY (1969)	<i>Assistant Professor of Radiology (Diagnostic Radiology)</i>
M.D., Bowman Gray.	
HOWARD M. WISOTZKEY (1969)	<i>Assistant Professor of Pathology- Neuropathology</i>
B.A., Dartmouth; M.D., Maryland.	
RICHARD L. WITCOFSKI (1961)	<i>Associate Professor of Radiology (Radiological Physics) Associate in Neurology</i>
B.S., Lynchburg; M.S., Vanderbilt; Ph.D., Wake Forest.	
ERNEST H. YOUNT (1948)	<i>Professor of Medicine</i>
A.B., North Carolina; M.D., Vanderbilt.	

STAFFS OF THE LIBRARIES

MERRILL G. BERTHRONG, A.B., A.M., Ph.D., *Director of Libraries*

RICHARD J. MURDOCH, B.A., M.S. in L.S., *Assistant to the Director and Curator of Rare Books.*

The Z. Smith Reynolds Library (General Library)

CARLTON P. WEST, A.B., A.M., B.S. in L.S., *Librarian*

MRS. ANNE M. NICHOLSON, A.B., B.S., in L.S., *Technical Services Librarian*

MINNIE S. KALLAM, B.A., B.S., in L.S., *Reference Librarian*

MRS. DOROTHY M. ROWLEY, B.A., B.S. in L.S., *Periodicals Librarian*

JAMES M. NICHOLSON, M.A., M.S. in L.S., *Circulation Librarian*

WILLIAM K. ACH, A.B., B.S. in L.S., *Microtext Librarian*

MRS. JEANETTE M. SMITH, B.A., M.A. in L.S., *Acquisitions Librarian*

MINNIE M. HUGGINS, B.A., B.S. in L.S., *Documents Librarian*

JOHN R. WOODARD, JR., B.A., *Director of the Ethel Taylor Crittenden Collection in Baptist History*

MRS. MARGARET V. SHOEMAKER, B.S., A.B. in L.S., *Assistant Catalog Librarian*

Library of the School of Law

MRS. VIVIAN L. WILSON, A.B., B.S. in L.S., *Librarian*

Bowman Gray School of Medicine Main Library and Allied Health Library

MRS. ERIKA LOVE, B.A., M.A. in L.S., *Librarian*

MRS. ELLEN HOWARD, B.A., M.S. in L.S., *Chief, Public Services*

MRS. SOO LEE, B.A., M.S. in L.S., *Chief, Technical Services*

CHERYL SCHRAN, B.A., M.S. in L.S., *Allied Health Librarian*

MRS. BARBARA DEWEERD, B.A., M.S. in L.S., *Interloan Librarian*

MRS. YVONNE MOOSSY, B.S., M.S. in L.S., *Special Services Librarian*

Babcock Graduate School of Management

MRS. JEAN B. HOPSON, B.S., M.A. in L.S., *Librarian*

COACHING STAFF

G. EUGENE HOOKS (1956)	<i>Director of Athletics</i>
B.S., Wake Forest; M.Ed., North Carolina; Ed.D., George Peabody.	
JESSIE I. HADDOCK (1954)	<i>Associate Director of Athletics and Golf Coach</i>
B.S., Wake Forest.	
CALVIN C. STOLL (1969)	<i>Football Coach</i>
B.A., Minnesota.	
JOHN W. McCLOSKEY (1966)	<i>Basketball Coach</i>
B.S., M.S., Pennsylvania.	
NEIL JOHNSTON (1966)	<i>Baseball Coach, Asst. Basketball Coach</i>
B.S., Ohio State; M.S., Temple.	
HAROLD C. RHEA (1968)	<i>Track Coach; Instructor in Physical Education</i>
B.S., Midland Lutheran; M.A., Ed.D., Colorado State.	
LEO ELLISON, JR. (1957)	<i>Swimming Coach; Instructor in Physical Education</i>
B.S., M.S., Northwestern State College.	
THOMAS F. HARPER (1969)	<i>Assistant Football Coach</i>
B.A., M.A., Kentucky.	
RONALD MILLS STARK (1969)	<i>Assistant Football Coach</i>
B.S., M.A., Missouri State.	
OVAL LEE JAYNES (1969)	<i>Assistant Football Coach</i>
B.S., Appalachian.	
WILLIAM BEATTIE FEATHERS (1961)	<i>Assistant Football Coach</i>
B.S., Tennessee.	
NORMAN PARKER (1969)	<i>Assistant Football Coach</i>
B.S., M.A., Eastern Michigan.	
JAMES H. LEIGHTON, JR. (1962)	<i>Tennis Coach</i>
A.B., Presbyterian College.	
ROBERT T. BARTHOLOMEW (1969)	<i>Director of Deacon Club</i>
B.A., Wake Forest.	
LEWIS MARTIN (1958)	<i>Trainer</i>
DAL LYNCH (1966)	<i>Athletic Equipment Manager</i>
WRIGHT ANDERSON (1970)	<i>Freshman Football Coach</i>
A.B., Elon; M.A., North Carolina.	
WALTER NOELL (1970)	<i>Assistant Basketball Coach</i>
B.A., Wake Forest; M.A., East Carolina.	
BRADLEY MILLS (1971)	<i>Assistant Football Coach</i>
A.B., Kentucky.	
BILLY MITCHELL (1971)	<i>Assistant Football Coach</i>
A.B., Kentucky.	

COMMITTEES OF THE FACULTY

1971-72

Effective September 1, 1971

The terms of members, except where otherwise shown, expire on August 31 of the year indicated. Each committee selects its own chairman except where the chairman is designated. All members of a committee vote except as otherwise indicated.

Admissions

Non-voting. Director of Admissions, Assistant Dean of the College, Dean of Women, and one student in Wake Forest College.

Voting. 1974 Gentry, O'Flaherty; 1973 Nofle, Phillips; 1972 Olive, J. H. Smith, and one student in Wake Forest College.

Advisory Council to Lower Division

Waddill, Chairman; Andronica, Angell, Baird, Barefield, Brehme, Broyles, Cage, Catron, Cook, Covey; Dimmick, Gossett, Harris, Hayes, Hester, Himan, Hood, Horowitz, Kuhn, McDowell, J. G. May, W. G. May, Milner, Mitchell, Nofle, Olive, L. H. Potter, Reeves, P. S. Robinson, Rodtwitt, Sanders, F. L. Scott, Sears, Sinclair, C. W. Smith, J. H. Smith, Steintrager, Sullivan, A. S. Tillett, Weigl, West, G. P. Williams, Wolfe, Woodmansee, Wyatt.

Athletics

Administrative: Vice President for Business and Finance, Dean of the College, Faculty Representative to ACC; 1976 Baxley, Crisp; 1975 Bryant, Christman; 1974 Drake, Gay; 1973 Ellison, Richman; 1972 Burroughs, Hyton.

Buildings and Grounds

Administrative: Provost, Dean of the College, Treasurer, Registrar, Director of the Physical Plant; 1976 Owen, 1975 Seelbinder, 1974 Cook, 1973 Tedford, 1972 Allen and two students from Wake Forest College (one voting and one non-voting.)

Curriculum

Provost, Dean of the College, Dean of the School of Business, Registrar, and the chairman of each department of Wake Forest College as follows: Art, Biology, Business and Accountancy, Chemistry, Classical Languages, Economics, Education, English, German, History, Mathematics, Military Science, Music, Philosophy, Physical Education, Physics, Political Science, Psychology, Religion, Romance Languages, Sociology and Anthropology, Speech Communication and Theatre Arts.

Committees

Executive

Non-voting. Provost, Assistant Dean of the College, Dean of Students, Dean of Men, Dean of Women, and one student in Wake Forest College.
Voting. Dean of the College, Dean of the School of Business, the following faculty members: 1974 Sears, Wagstaff; 1973 Brehme, Shaw; 1972 Fraser, Gossett; and one student in Wake Forest College.

Faculty Marshals

1974 Reeves, 1973 Pollock, 1972 Olive.

5.

Graduate Council

Dean of the Graduate School, Chairman; Provost, Coordinator of Graduate Studies of the Bowman Gray School of Medicine; 1975 Waddill, 1974 Fosso, 1973 Baird, 1972 Barnett, 1971 Cowgill, G. P. Williams.

Honors

Dean of the College, Coordinator of the Honors Program, 1975 Weigl, 1974 Beck, 1973 Fosso, 1972 Fleer, and two students in Wake Forest College (one voting and one non-voting.)

Library Planning

Regular. Director of Libraries, Librarian, 1974 Amen, Barrow; 1973 Shorter, A. S. Tillett; 1972 Covey, Talbert, and two students in Wake Forest College (one voting and one non-voting).

Occasional. Provost, Dean of the Graduate School, Dean of the College, Dean of the School of Business, Chairmen of all departments (as under Curriculum Committee above).

Men's Judicial Board

Non-voting. Dean of Students (or his designated representative) as secretary.

Voting. 1974 Elmore, Lewis; 1973 Baxley, Helm; 1972 J. A. Hall, Woodmansee; and six students in Wake Forest College.

Nominations

1974 Griffin, Sawyer; 1973 Brown, Cage; 1972 Preseren, Shields.

Orientation

Chairman of the Advisory Council to the Lower Division, Chairman; Dean of the College, Dean of Students, Dean of Men, Dean of Women, President of the Student Government.

Publications

Dean of the College, Treasurer, Director of Communications; Faculty advisers of *Old Gold and Black*, *Howler*, and *Student*; 1974 Bonnette, 1973 Kenion, 1972 Barefield.

ROTC Board

Coordinator Helm, Professor of Military Science, 1974 Shoemaker, 1973 Falkenberg, 1972 Zuber.

Scholarship and Student Aid

Director of Admissions and Financial Aid, Assistant Dean of the College, Dean of Women, the following faculty members: 1974 Covey, Hegstrom; 1973 McDowell, Richards; 1972 Hayes, Syme; and two students in Wake Forest University (one voting and one non-voting).

Student Life

Non-Voting. Provost, Dean of the College, Dean of Students, Dean of Women, Dean of Men, Chaplain.

Voting. 1974 Angell, M. F. Robinson, Welker; 1973 Moorhouse, Sanders, Sullivan; 1972 Crisp, Reeves, Reinhardt; and six students in Wake Forest College.

Teacher Education

Chairman of the Department of Education, Dean of the Graduate School, Dean of the College; 1974 Barefield, Turner; 1973 Raynor, Rhea; 1972 Campbell, W. G. May.

Traffic Commission

Director of the Physical Plant; 1974 King, Wyatt; 1973 Andronica, Olive; 1972 Gulley, E. W. Hamrick; and six students in Wake Forest College.

University Senate

President, Provost, Vice President for Business and Finance, Dean of the College, Dean of the School of Law, Dean of the Bowman Gray School of Medicine, Dean of the Charles H. Babcock School of Business Administration, Dean of the Graduate School, Director of Libraries, Director of Development, and the following:

Representatives of Wake Forest College: 1974 Pritchard, Shorter; 1973 Banks, Schoonmaker; 1972 Barnett, Hills; 1971 Carter, Nowell.

Representatives of the School of Law: 1973 Webster; 1971 Lee.

Representatives of the Bowman Gray School of Medicine: 1974 Meredith; 1973 Rapela; 1972 Prichard; 1971 Bo.

Representatives of the School of Business Administration: 1973 Hylton, 1971 Scott.

Representatives of the Graduate School: 1974 Seelbinder, 1973 L. R. Tillet, 1972 Shields, 1971 Flory.

DEGREES CONFERRED

DEGREES CONFERRED JUNE 8, 1970

Doctor of Philosophy

Preston Hackney Dorsett	Don Carl Jones
	James John Richter

Master of Arts

Blake Patrick Boyle	Robert Edward Morcock
William Charles Gordon	Rebecca Wall Nail
Stanley Steven Gyskiewicz, Jr.	David J. Parrish
Charles Edward Kirkpatrick	Joseph Anthony Roderiguez
Karol Lynn Benewicz Knoblock	Elsie Faye Russ
James E. Lawler	James Robert Shirley
John Aaron Mann	Norman Edward Wooten

Master of Arts in Education

Teresa Anne Franson	Martha Rose Hamrick
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Master of Science

Noel David Marion Lehner	Patrick James Manning
	Vernon Leon Moore

Doctor of Medicine

Charles Freeman Alexander, III	John Alderman Freeman, Jr.
Robert Gray Austin, Jr.	Jarrett Gordon Gregory
Sidney Charles Bean	Jimmy Gilbert Harris
Ira Michael Bernstein	Weldon Edward Havins, Jr.
Philip Gordon Bickers	Michael Jack Hensley
Daniel William Blue	David Lowell Heymann
Judith Frances Bounous	Haywood Northrop Hill, Jr.
William Alex Brady	Glenn Richard Johnston
Henry Allen Brandon, Jr.	Richard Arden Kerecman
William Ray Brown, Jr.	Donald Gerald Leonard
Charles Allen Bullaboy	Gary Michael Lum
William Joseph Casey, Jr.	David Whitney McAllister
Charles Hoy Chambers	Hersey Eugene Miller
Carolyn Ray Cort	John Calvin Morrison
David Arthur Cort	Lewis Henry Nelson, III
John Woodrow Davis, Jr.	Paul Samuel Pegram, Jr.
William Lee Davis	Michael Eric Perry
Salvatore Gregory Dizzia	Jackson Lee Pittman
Joey William Eakins	Robert Narraway Powell
Wilson Oliver Elkins	Lovett Pratt Reddick
Charles Thurman Ellithorpe	Douglas Lloyd Rogney
Carolyn Black Ferree	Edward Clifton Russell
James Thomas Fowler, III	Mark Michael Sapirstein

James Sarkis Sarkisian
Robert Luther Shuman
Louis Philip Stein
Richard Henry Stewart

Donna Rook Stroud
Charles Siewers Turner
James Robert Woods, Jr.
Monty Woods

Juris Doctor

John Russell Barlow, II
Hunter Spencer Barrow
Carl Edward Bell
Raymond Terry Bennett
Ronald Gene Braswell
John Elam Carriker
Harry Hilliard Clendenin, III
Amos Gilmore Crumpler, Jr.
Lucie Shervette Crumpler
James Nichol Deinlein
Leslie Benton Farmer
Edward Thornton Floyd
Mark Ellis Galloway
Lawrence Gilmore Gordon, Jr.
Richard Stewart Gordon
David Thomas Greer
Edgar Bernard Gregory
Robert Alexander Hannah
Jake Carson Helder
Malcolm Jones Howard
Howard Vinson Hudson, Jr.
Max Edward Justice
Thomas Jeffery Keith
William Allen Klopman, Jr.
Robert Keller Leonard
Michael Joseph Lewis

Roscoe Lindsay, Jr.
John Halsted Loughridge, Jr.
Richard Reed Lyle
William Ernest Marshall, Jr.
William Lester Meck, II
William Joseph Nolan, III
Hugh Jones Norris, Jr.
Robert Wayne Odom
Warren Leonard Pate
Richard Mack Pearman, Jr.
James Samuel Pfaff
Ronald Martin Price
John Morris Rich
Gregory William Schiro
Chester Gitt Schultz
John Joseph Schramm, Jr.
John Joyner Snow, Jr.
James Eugene Snyder, Jr.
Richard Lynn Stanley
Robert Clifton Stephens, Jr.
Robert Warren Sumner
James Samuel Williams
James Lynwood Wilson
Robert Warren Wolf
John George Wolfe, III

Bachelor of Arts

Laura Susan Abernathy
Shelley Corrine Abernathy
Linda Hinson Adams
Michael Lee Adams
Roger David Alden
Dorothy Suzanne Alexander
Suellen Anderson
William Matthias Angle
Charles Morgan Bailey
John M. Baker
Elizabeth Caldwell Beatty
Paul Aaron Belvin
Robert Laurence Bingham
Laura Elizabeth Wall Black

Charles Fred Blackburn, III
Ronald Gay Blanchard
Raymond Harry Bogaty
Nancy Moate Boushy
Patsy Robin Bovender
Dennis Grant Bowlin
Barry L. Brelow
William Donald Brewer, Jr.
Robert Terry Bryant
Heath Denton Bumgardner, Jr.
John Robert Burger
Gary Wayne Burke
Linda Dianne Burnett
Kenneth Oakley Bush

Degrees Conferred

James Timothy Butler
Steven Elmore Byerly
Paul Harrell Cale, Jr.
Clyde Lee Callaway, Jr.
René Yvonne Carrie
Grover Anderson Carrington
John Michael Carroll
Ronald Vernon Carter
Robert N. Clarke
Jeffrey Lawrence Collins
Stephen Wray Comer
Karen DuPré Conger
David Andrew Connors, III
Daniel Milton Copeland
Leila Byrd Corrie
Wayne Ray Coussens
Rhonda Gayle Cox
Alice Beth Craddock
Roger Alan Crockett
James Estes Cross, Jr.
Catherine Ellen Cumby
James William Curl, Jr.
Michael Sean Curran
Patricia Lynne Dailey
Stephen Porter Darnell
Charles Robert Dashiell, Jr.
William Hersey Davis, III
Beverly Dent Dobner
Wilton Russell Duke, Jr.
Katherine Margaret Dunlap
Robert George Dunning
Christine Joy Ekvall
Mary Anita English
Kenneth Ralph Erickson, Jr.
Susan Claire Evans
Elizabeth Jane Everhart
David Gaertner Fergusson
Susan Diane Fischer
Thomas Smith Fleming, Jr.
Anderson Gayle Floyd, Jr.
Charles Edward Floyd
Carole Keith Grimsley Floyd
Douglas Wayne Ford
Laura Christian Ford
Stuart Dean Foster
Carolyn Ruth Fox
Ellis Oakley Frost
Charles Stephen Gaddy
David Charles Gasque

Ricky Charles Gentry
Gretchen Caroline Gerhardt
Richard Lee Goard
Dennis Wayne Goins
Gary Andrew Graham
John Charles Greenhaugh
Kay Hartzoge Gresham
Doris Elizabeth Groff
Karl Owen Haigler
Eleanor Cheryl Hall
David Lee Hartley
James Douglas Hartzog
George W. Haskin
Susan Marie Haurand
Denson Gray Hauser, Jr.
David Kenneth Hayes
Teri Strug Hayes
Katherine Holliday Heath
Martha Lee Heckerman
Kenneth Shell Hemphill
James Howard Herstine
Jeanne Carol Hester
Carl Woodall Hibbert
Betty Harkness Hicks
Laurel Marlene Hill
Deborah Hope Hodge
Charles Henry Hodierne, III
Nancy Cox Holbrook
Charles Milton Holland
John Alexander Holthouser
Mary Jo Hord
Guy Thomas Horner, Jr.
George Robert Horton
Mary Lynch Horton
James Dallas Howell, III
Rebekah Lou Howell
Jerry Deams Hoyle
Edward Stevenson Hurley
Betty Frances Hyder
Harold Ross Inman
Joseph C. Inman, Jr.
Martha Louise Gunby Ivey
Barbara Gayle Jackson
Evander Gilbert Jeffords
Thomas Parks Jennings
Vaughn Edward Jennings, Jr.
Barbara Brock Jobe
Brock William Jobe
Linda Ann Johnson

Robert Francis Johnson
 Morris Wiley Jones, Jr.
 Paul Winthrop Jones, III
 Thomas Pruitt Jones
 Robert Douglas Kater
 David Glenn Kellum
 James Michael Kelly
 Thomas Max Kettlehake
 Samuel Cromer King, Jr.
 James Brady Kinlaw, Jr.
 Susan Irene Kinsey
 Robert Paul Klosterman
 Donald Joseph Kobos
 Robert Dumais Kornegay, Jr.
 Burnell Handwerk Krause, Jr.
 Claudia Ann Krest
 Susan Jane Krusell
 George W. S. Kuhn, III
 Bruce Allen Kushner
 James Walter Kyle
 William Edward Lamb
 Joe Gray Lawrence, Jr.
 Richard Gordon Leader
 Willard H. Leavitt, Jr.
 Everette Oden Ledbetter, II
 John Michael Leffler
 Michael Meredith Long
 Samuel Henry Long, III
 Barbara Gae Luker
 Thomas John Lynch
 John Hugh Lytton, Jr.
 Harold Paul McCoy, Jr.
 James Christopher McDuffie
 Gary Sanford McHam
 Hugh Forrest McManus, III
 Claude Ackle McNeill, III
 Roger Phillip Main
 Earl Lewis Marsalis
 Donna Lee Marshall
 Gloria Howard Martin
 John Dunbar Matsinger, Jr.
 John Paul Matson
 Susan Lynn Mauger
 David Matteson Meech
 Thomas Fleetwood Mefford
 Deanne Evelyn Mellen
 Larry McKinley Melton
 Sophocles Cratinos Michaelides
 Clara Jean Michaels

William Clarence Moose
 Michael Stephen Mulkey
 Susan Elizabeth Nance
 Robert Wayne Nixon
 Beverly Watkins Norwood
 Sarajane Oakley
 Penny Susan Olin
 William Rayford Oliver
 Cynthia Louise Olsen
 Nancy Sue Outlaw
 Mary Helen Owen
 Janice Lynn Crosswhite Page
 Jeanne Ann Parks
 David Allen Parris
 Judith Louise Pike
 Dennis Lee Pinkleton
 Floyd Eugene Plott, Jr.
 Franklin Roosevelt Plummer
 Elizabeth Tyler Porter
 Stephen Miles Powell
 Beverly Jeanne Preston
 Nancy Jean Price
 Joe Lee Puckett, III
 James Leland Putnam
 Edward Sims Rankin
 Jimmy Dean Reeves
 Dorothy Becton Reinhardt
 Douglas McBane Renegar
 Craig George Robinson
 James Barnett Robinson, Jr.
 Donald Lynwood Ross
 Leila Ruth Routh
 Floyd Ray Rummage, Jr.
 Lee Kathleen Ryder
 Ruth Ellen Sanford
 Janet Clyde Sawyer
 Marla Lynn Schambach
 Marian Scherer
 Robert Christopher Schock
 Wesley Bryan Seamon
 William Martin Sedberry
 James Stephen Sheffer
 Shirley Gazsi Sheola
 Richard Allen Shoaf
 Mack Ray Shuping
 Elizabeth Guthrie Sides
 Karen Hancock Simmons
 Betty Jane Smith
 Tamara Layne Smith

Degrees Conferred

Willie Daniel Spivey
Larry Arthur Stancill
Charmelle Staples
Mary Linda Taylor Starmer
James Thomas Stone
Marcia Barrow Stone
Mary Kay Stoudenmire
A. Jackson Strickling
Thomas Callie Tadlock, Jr.
Margaret Glenn Taylor
Phillip Dean Taylor
Stephen C. Taylor
William Lloyd Taylor
William Smith Thomas, III
Murray Joseph Thompson
Naomi Ruth Thorp
James Wilson Trent, Jr.
Sarah Elysabeth Troutman
Lillian Durant True
Susan Elaine Turner
Eugenia Anne Melvin Tuten
Robert Donal Umbel
Edmund Theodore Urban
David Oren VanDelinder
John Perry VanZandt, III
Kristen Hope Vaughan

Walter Ray Vernon, Jr.
Janis Louise Vince
Linda Jean Pierce Walker
Richard Carr Walker
Carroll Charles Wall, III
Roscoe LeGrand Wall, III
Michael Bruce Wallace
John Douglas Walsh
Garland Monroe Waters
Jane Bell Weathers
Edwin Leo Welch, Jr.
George Kenneth West
Beverly Jean White
Dayle Diane White
Maynard Charles White
Molly Lynn Hirons White
Stephen Franklin White
Melvin Stanley Whitley
Sharron Ann Wiist
Raboteau Terrell Wilder, Jr.
James Davis Williams
Gary Worth Williard
Thomas Joseph Woolley, Jr.
Roy Wayne Wright
Stuart Thurman Wright
Julius Smith Young, Jr.

Bachelor of Science

Tommy Newell Abernethy
Daniel Ross Ackley
Susan Jean Alligood
Mary Jacqueline Andrews Allison
William Pleasant Andrews
Sally Ann Whitehurst Atkinson
Benjamin Thompson Aycock, Jr.
William Walter Bachovchin
John Frederick Barden
Jane Barnes
Patrick Douglas Barnes
Lois Ann Bergman
James Wallace Bishop
Robert Wright Blanton
Donald Haywood Bobo
Guy Russell Boleman, III
Robert Milton Brenner
Henry Michael Britt
Audrey Nancy Britton
Ellen Sue Brockett

Crystal Laurie Burns
Robert Wesley Callahan
Frank Daniel Cannon, Jr.
James Delaney Carlton
Robert Alexander Caskey, II
Dominic KoMan Chan
Clyde David Chapman, Jr.
Rebecca Edwards Clack
Robert Hugh Corbett
Candace Ruth Corvey
Katherine Davis Woolley Crawford
Nancy Paige Cummings
Richard Alan Curb
John Almy Danforth
Thomas Edward Deacon
Joseph Jacob Dobner
Wiley Jacob Doby, Jr.
Stephen Boyd Earle
James Malcolm East
Nancy Carolyn Elliott

Dorus Edgar Faires
Larry Eugene Freeman
Vickie Ann Gentry
Steven Charlie Grubb
Larry Fricke Habegger
Barry Thomas Hackshaw
Bahnson David Hall
Nancy Jo Hampton
Richard Everett Hardison
Hollis Joan Hawkins
Daniel Ralph Hobbs
James Walker Hobbs
Karen Lee Hollifield
Richard Allison Honeycutt
John Anthony Hyatt
Nelson Nolan Isenhower
Nicholas P. Iannuzzi, III
Wayne Thomas Jarman
Freda Lee Jones
Carol Sue Jordan
Richard Grant Joslin
Bruce Lewis Jubanowsky
Carl Norman King
Bryant Eugene LaFoy
Charles Butler Lassiter
Willie Jay Laughridge, III
Edmond Harold Liles
Sarah Leigh Lipford
Joel August Ludlum
Robert Kent McCarn
Ronald Scott McCord
Florence Elizabeth McDonald
Robert Mills McGirt
Jolynne McNeil
Doreen Hammer Mabe
Leslie Wilson Manning, Jr.
Alfred Raymond Martin
Ann Cleveland Poot Miller
Joel Byron Miller
Frances Jane Miller
Judith Claire Morrow
David Kirby Morton
Timothy Erwin Moyer
James Harry Naphas
Joan Maria Nelson
Ernest Y. Nichols
Stanley Gene Oetken
Suellyn Parkinson

Margaret Lucille Parrish
Ann Louise Peale
Frederick Cabell Philpott
Joseph Michael Plunkett
Larry Frank Pons
Susan Elena Powers
Mary Ann Pragnall
Josephine Anna Preston
Janice Gayle Reavis
Scott Eldridge Reed
Jimmy Darrell Saine
William Herl Scheib
John Randolph Searle
Donald Thornton Shafer
Bruce Edward Sharpe
Beverly Ann Shaw
Douglas Wayne Shiflett
Adelaide Alexander Sink
David Gregory Slaton
Gregory James Smith
James Bernard Spears, Jr.
Frank Henry Stelling
Joel Edwin Stephens
Kristen Stertzbach
Marilyn Elaine Stiff
Patricia Ann Strickland
Rebekah Elizabeth Sueur
John Ellwood Tantum
James Quentin Taylor, Jr.
Milton Lee Teague, Jr.
Richard Edward Thomas
Wayne Woltz Tolbert
John Jay Triplett, Jr.
Joel Van Tuttle
Melinda Ann Underwood
John Barrett Walker, III
Bruce Douglas Walley
Demming Morton Ward
Christine Severn Waters
John Henry Vernon Watts
R. Kenneth Weeks, Jr.
Alan Preston White
Dayle Diane White
Robert Bruce Wilson
Rebecca Sue Wilson
Christine Yeager Williams
Peggy Einstein Yountz

Degrees Conferred

Bachelor of Business Administration

Dan Edward Abernethy	Stevens Bain Keiger
Charlsie Barr Bailey	Michael Russell Knight
Jack Rankin Baldwin, Jr.	Sherwood Lee Love
Daniel William Baxley	Dennis Henry Melvin
Franklin Andrew Beck	Michael Benjamin Neale
Charles Archer Binford	Wison Haywood Phillips, Jr.
Thomas E. Bowers, Jr.	Donald Kenneth Polifka, Jr.
Grayson Hewitt Brown	Randy L. Price
Douglas Pratt Buckley	John Samuel Queen
Michael Roger Clemmons	Walter Franklin Rose, Jr.
Mary Kay Cornwell	Paul C. Savage
Virginia Ann Eastin	Cyrus Thompson Sloan, III
Robert Philip Flood, Jr.	Richard Michael Spencer
Joan Wimer Gasaway	Charles Francis Sugg
Gregory Cephus Gaskins	Joel Craig Swaim
Hampton Grey Goode, Jr.	John Leslie Tilley
John Robert Harper, Jr.	Steven Daryl Tomlinson
Allen Willard Hawkins, Jr.	William Crawford Townsend, Jr.
Joseph Samuel Holbrook, Jr.	James Boswell Vosters, Jr.
Joe Robinson Honeycutt, Jr.	Lawrence C. Walt
Stephen Franklin Howerton	Richard Allen Whittington
Robert Gail Jacobsen	Floyd Lee Williams
Michael Evans Jones	Barbara Ann Witt

HONORARY DEGREES

Doctor of Humane Letters

Htin Aung

Doctor of Laws

Albert Louis Butler, Jr.

Lex Marsh

Arnold D. Palmer

Doctor of Letters

Bill D. Moyers

AWARDS AND HONORS

1. From the School of Arts and Sciences

Graduating with Honors in:

Arts and Sciences: Richard Allen Shoaf

Biology: Frank Daniel Cannon, Jr., Sara Leigh Lipford, Margaret Lucille Parrish, Marilyn Elaine Stiff, Bruce Douglas Walley, Alan Preston White

Economics: Dennis Wayne Goins, Sophocles Cratinos Michaelides

German: Dorothy Becton Reinhardt

History: David Lee Hartley, Brock William Jobe

Political Sciences: Karl Owen Haigler, Robert Douglas Kater

Psychology: Bruce Allen Kushner

Religion: Larry McKinley Melton

Romance Languages: Melvin Stanley Whitley

Speech: Laura Susan Abernathy

The A.C.C. Award for Excellence in Scholarship and Athletics: Joseph Jacob Dobner

The Tom Baker Award in Debate: Wayne Woltz Tolbert

The Tom Baker Award in Publications: Claude Ackle McNeill, III

The Forrest W. Clonts Award for Excellence in History: Brock William Jobe

The J. B. Currin Medal in Religion: Wesley Ray Cook.

The American Bible Society Award for Excellence in Biblical Scholarship: James Timothy Butler

The Claude H. Richards Award for Excellence in Political Science: Karl Owen Haigler

Elected to Associate Membership in the Society of Sigma Xi: Marilyn Elaine Stiff

Seniors elected to Phi Beta Kappa, Spring 1970

Laura Susan Abernathy

Suellen Anderson

Deborah Lou Best

Linda Dianne Burnett

James Timothy Butler

Alice Beth Craddock

Nancy Paige Cummings

Carole Grimsley Floyd

Laura Christian Ford

Richard Everett Hardison

Kenneth Shell Hemphill

Vicki Gentry Horton

Joe Gray Lawrence, Jr.

Gloria Howard Martin

Sophocles Cratinos Michaelides

Joel Byron Miller

William Clarence Moose

Margaret Lucille Parrish

Douglas Wayne Shiflett

Richard Allen Shoaf

Adelaide Alexander Sink

Carolyn Jean Snider

Marilyn Elaine Stiff

Rebekah Elizabeth Sueur

Joel Van Tuttle

Melinda Ann Underwood

Dayle Diane White

Melvin Stanley Whitley

Raboteau Terrell Wilder, Jr.

Awards and Honors

2. From the Charles H. Babcock School of Business Administration
The Lura Baker Paden Medal: Joan Wimer Gasaway
The Delta Sigma Pi Scholarship Key: Douglas Pratt Buckley
The A. M. Pullen and Company Medal: Hampton Grey Goode, Jr.
The North Carolina Association of C.P.A.'s Medal: Wilson Haywood Phillips, Jr.
The *Wall Street Journal* Award: Joan Wilmer Gasaway

Seniors elected to Beta Gamma Sigma

Douglas Pratt Buckley	Robert Philip Flood, Jr.
Mary Kay Cornwell	Joan Wimer Gasaway
Virginia Ann Eastin	Hampton Grey Goode, Jr.

3. From The School of Law
The North Carolina National Bank Award, First Prize (Wake Forest): Robert Clifton Stephens, Jr.
Also, Winner Second State-Wide Prize
The North Carolina National Bank Award, Second Prize (Wake Forest): Raymond Terry Bennett
The Nathan Burkan Memorial Copyright Competition: Robert Wayne Odom
The Warren A. Seavey Award: Harry Hilliard Clendenin, III
4. From The Bowman Gray School of Medicine
The Faculty Award: William Joseph Casey, Jr.
The Pediatric Merit Award: Charles Allen Bullaboy
The Obstetrics-Gynecology Award: Paul Samuel Pegram, Jr.
The Annie J. Covington Memorial Award: Donald Gerald Leonard
The Upjohn Achievement Award: Paul Samuel Pegram, Jr.

Seniors elected to Alpha Omega Alpha

Charles Freeman Alexander, III	David Lowell Heymann
Sidney Charles Bean	Paul Samuel Pegram, Jr.
William Joseph Casey, Jr.	Lovett Pratt Reddick
Jimmy Gilbert Harris	Monty Woods
Michael Jack Hensley	

5. From the Department of Military Science
The Superior Cadet Decoration: Cadet Captain Nelson N. Isenhower
The ROTC Certificate of Meritorious Leadership: Cadet Major Scott E. Reed
The American Ordnance Association Award: First Lieutenant Murray J. Thompson

The Reserve Officers' Association Medal: Cadet Major John C. Greenhaugh

The Professor of Military Science Award: Cadet Captain Joseph J. Dobner

The American Legion Award for Scholarship: Cadet Captain Charles B. Lassiter

The American Legion Award for Military Excellence: Cadet Captain Raymond T. Bennett

The Daughters of the American Revolution ROTC Medal: Cadet Captain Joe G. Lawrence, Jr.

The Sons of the American Revolution "Minute Man" Medal: Cadet Captain Roger P. Main

6. Graduation Distinctions

Summa Cum Laude

Richard Allen Shoaf

Magna Cum Laude

Laura Susan Abernathy
James Timothy Butler
Alice Beth Craddock
Nancy Paige Cummings
Vicki Ann Gentry
Richard Everett Hardison
Kenneth Shell Hemphill
Joe Gray Lawrence

William Clarence Moose
Adelaide Alexander Sink
Marilyn Elaine Stiff
Rebekah Elizabeth Sueur
Melinda Ann Underwood
Melvin Stanley Whitley
Raboteau Terrell Wilder, Jr.

Cum Laude

Susan Jean Alligood
Suellen Anderson
Paul Aaron Belvin
Lois Ann Bergman
Dennis Grant Bowlin
Ellen Sue Brockett
Douglas Pratt Buckley
Linda Dianne Burnett
Frank Daniel Cannon, Jr.
Rene Yvonne Carrie
Ronald Vernon Carter
Bart Aaron Charlow
(Jan. 28, 1970)
Janet Louise Clark
(Jan. 28, 1970)
Harry Hilliard Clendenin, III
Mary Kay Cornwell

Leila Byrd Corrie
Candace Ruth Corvey
Katherine Davis Woolley Crawford
Joseph Jacob Dobner
Virginia Ann Eastin
Christine Joy Ekvall
Nancy Carolyn Elliott
Susan Claire Evans
Dorus Edgar Faires
Carole Keith Grimsley Floyd
Jean Adair Fogleman
(Aug. 29, 1969)
Judith Gilmore Ford
(Jan. 28, 1970)
Laura Christian Ford
Joan Wimer Gasaway
Ricky Charles Gentry

Graduation Distinctions

Dennis Wayne Goins
Karl Owen Haigler
Robert Alexander Hannah
David Lee Hartley
David Kenneth Hayes
Jeanne Carol Hester
Laurel Marlene Hill
John Anthony Hyatt
Nelson Nolan Isenhower
Martha Louise Gunby Ivey
Thomas Parks Jennings
Vaughn Edward Jennings, Jr.
Brock William Jobe
Mary Roynon Johnson
(Jan. 28, 1970)
Max Edward Justice
Robert Douglas Kater
James Brady Kinlaw, Jr.
Susan Irene Kinsey
Charles Butler Lassiter
Sarah Leigh Lipford
Gloria Howard Martin
Florence Elizabeth McDonald
Donna Lee Marshall
Deane Evelyn Mellen
Larry McKinley Melton
Sophocles Cratinos Michaelides
Clara Jean Michaels
Ann Cleveland Poot Miller

Joel Byron Miller
Suellyn Parkinson
Jeanne Ann Parks
Margaret Lucille Parrish
Ann Louise Peale
Joseph Michael Plunkett
Elizabeth Tyler Porter
Mary Ann Pregnall
Nancy Jean Price
Dorothy Becton Reinhardt
Donald Lynwood Ross
Robert Christopher Schock
Douglas Wayne Shiflett
Betty Jane Smith
Carolyn Jean Snider
(Aug. 29, 1969)
Kristen Stertzbach
Naomi Ruth Thorp
James Wilson Trent, Jr.
Joel Van Tuttle
Bruce Douglas Walley
John Henry Vernon Watts
Alan Preston White
Beverly Jean White
Dayle Diane White
James Samuel Williams
James Lynwood Wilson
Julius Smith Young, Jr.

DEGREES CONFERRED JANUARY 28, 1970

Master of Arts

Glenda Shaffer Angel	William Martin Marsh
William Holmes Chapman, III	Beverly Burch Smith
Nancy Miller Culp	Lorraine Barney Spencer
Marion Krieger	Akhauri Ratish Nandan Strivastava
Philip Wheeler Leon	Wyndham Lee Wilkinson
Jane McCown McKinney	Bettie Hardin Wilson

Master of Science

Betty Lou Lowrance

Bachelor of Arts

Floyd Mickey Andrews	Alfred Talbot McCulloch
James William Bodie	David Alger McNaught
Bart Aaron Charlow	Douglas Joseph Masters
Janet Louise Clark	Robert Bruce Miller
Edward Taylor Dentry, III	David Louis Ott
William Howard Dillman	Brenda Lee Fasnacht Overman
Luther Randolph Doffermyre, III	Kirk Edgar Patchel
Judith Gilmore Ford	Daniel M. Peterson
Donald William Gallagher, Jr.	Garland Duke Ricks, III
Mark Ellis Galloway	Betty Burt Rorie
Glenda Gilmore Hanner	Carolyn Hertzler Spindler
Linda Tilghman Heidgerd	Martha Cummings Wells
Cathy Suzanne Holden	Patricia Elaine Whitman
Mary Roynon Johnson	Robert Harding Williams, Jr.
Glennon James Karr	Robert Theodore Williams

Bachelor of Science

John Brockman Bland	Robert Carl Oplinger
Sharon Marie Crews	Martha Jo Brookbank Staton
Thomas Nelson Hickman	Jerry Lee Williams

Bachelor of Business Administration

Thomas Stuart Gibson	Gary Herman Schroeder
Danny Aubrey Inge	David Walter Shelton
Michael Guy Kelly	Steven Richard Teitelman
Michael Dover Markham	Marion Daniel Turbeville

GRADUATION DISTINCTIONS

Cum Laude

Bart Aaron Charlow
Janet Louise Clark
Judith Gilmore Ford
Mary Roynon Johnson

SUMMER DIVISION OF THE CLASS OF 1970

Friday, August 22

DEGREES CONFERRED

Doctor of Philosophy

Robert Herman Broyles
Reginald Denny Carter

5.

Master of Arts

Kathleen M. Batchelder	Edward Leal Hadden, Jr.
Paul Edwin Beavers	Jane M. Olmsted
Raymond Eugene Burrell	Patricia E. Sinicrope
George E. Carter, Jr.	Anna Louise Stout
Patricia Flynt	Mary Elizabeth Stuart
James E. Freeman	Frances Rice Swaim
Lucy Holton Gordon	Kathleen Peoples Tanner
Albert Gulkin	Laura Kate Viernstein
Everett C. Wilkie, Jr.	

Master of Arts in Education

Joan Lobis Brown	Pamela Turner Roberts
Debbie Michael Cohen	Colleen Joy Roudabush
Elaine Teresa Fuller	Jane Weldon Woodward
Jeane Brown Horsley	Candace Young

Master of Science

Lynn Thomas Callahan, III	Wayne Francis Green
Eldon Elmore Eckard	Patsy Wang

Bachelor of Arts

Joyce Trigg Adair	Jerry Lee Dickerson
Daniel Dallas Baker	Linda Jane Edwards
Stephen Louis Barsotti	Dewey William Foster, Jr.
Christine Diane Beavers	Cynthia Poston Freeman
Deborah Lou Best	Lee Parker Furr
William Frank Bley, Jr.	Daryl Wade Garton
Elizabeth McCannless Brown	Otto V. Hamrick, III
Roy D. Brown	Robert Lee Johnson
J. Albert Bugbee, Jr.	Jay Hubert Kegerreis
James Day Chapman	James Hughes Lambert
William Fred Cooke	Sidney Johnston Lane
Antonio M. DeAngelo, Jr.	Eugene Freed Layman, III
Thomas M. Denton, Jr.	Pamela Lee McDonald

Degrees Conferred

Bruce Kearney McQuillen
Virginia Elizabeth Niblock
Peter Henry Ottmar
Richard Frank Porter
Susan Marion Riggs
Elmer Ray Spurr
William Richard Stout, Jr.

David Wolfe Stanley
William Hollis Stracener, Jr.
Carl Vann Tyner, II
Thomas Lewis Walsh
James Carlton Warren
Eloise Horne Webster
Carole Wells Wright

Bachelor of Science

Dennis Gregory Carrick
Brewer Moody Ezzell
Lynn Henry Hallman

Roger Allen Hull
Michael Ray Phillips
William Lamont Saunders

Bachelor of Business Administration

William George Allen
Wayne Leslie Dodson

Thomas Stephen Gaetje
Larry Wayne Hicks
George Walter Kester

GRADUATION DISTINCTIONS

Cum Laude

Deborah Lou Best
Virginia Elizabeth Niblock
Thomas Lewis Walsh

Graduating with Honors in Psychology: Deborah Lou Best

ROTC GRADUATES COMMISSIONED IN THE UNITED STATES ARMY RESERVE

January 1970

Danny A. Inge
Michael G. Kelly

Alfred T. McCulloch
Kirk E. Patchel

March 1970

Daniel M. Peterson

James S. Sheffer*

May 1970

Carlton C. Billingsley, Jr.
Howard C. Colvard, Jr.
William C. Gordon

Jake C. Helder
John H. Loughridge, Jr.*
Robert W. Odom
Robert C. Stephens, Jr.

June 1970

Franklin A. Beck
Raymond T. Bennett*
Ronald G. Blanchard
Thomas E. Bowers, Jr.
Robert W. Callahan
Michael S. Curran*
Stephen P. Darnell
Douglas W. Ford
Greg C. Gaskins
John C. Greenhaugh*
Karl O. Haigler*
Joseph S. Holbrook, Jr.
Nelson N. Isenhower*
Robert G. Jacobsen
Evander G. Jeffords
Samuel C. King, Jr.*
Michael R. Knight
George W. S. Kuhn, III*

Bryant E. LaFoy*
Charles B. Lassiter*
Joe G. Lawrence, Jr.*
Roger P. Main*
David A. Parris
Franklin R. Plummer
Stephen M. Powell
Scott E. Reed*
Donald L. Ross
Thomas C. Tadlock, Jr.*
James Q. Taylor, Jr.
William L. Taylor
Milton L. Teague, Jr.*
Murray J. Thompson*
James B. Vosters, Jr.
John H. V. Watts
Floyd L. Williams
Thomas J. Woolley, Jr.
Roy W. Wright

July 1970

Ronald V. Carter*
Joseph J. Dobner*
Dewey W. Foster, Jr.

David M. Meech
Peter H. Ottmar
Thomas L. Walsh†

August 1970

Antonio M. DeAngelo, Jr.

* Distinguished Military Graduates.

† Distinguished Military Graduates Commissioned in Regular Army.

ROTC GRADUATES COMMISSIONED IN THE UNITED STATES MARINE CORPS

June 1970

Lawrence C. Walt

ENROLLMENT – FALL 1970

	<i>Men</i>	<i>Women</i>	<i>Totals</i>	
<i>Graduate School</i>				
Wake Forest College:				
Regular	93	81	174	
Unclassified	21	30	51	
Bowman Gray School of Medicine:				
Regular	36	14	50	
Unclassified	3	1	4	
	153	126	279	279
<i>Wake Forest College</i>				
Seniors	356	148	504	
Juniors	337	161	498	
Sophomores	427	197	624	
Freshmen	535	229	764	
Unclassified	15	18	33	
	1,670	753	2,423	2,423
<i>Charles H. Babcock School of Business</i>				
Seniors	64	3	67	
Juniors	49	0	49	
	113	3	116	116
<i>School of Law</i>				
Third Year	57	0	57	
Second Year	75	2	77	
First Year	96	5	101	
	228	7	235	235
<i>Bowman Gray School of Medicine</i>				
Fourth Year	58	1	59	
Third Year	59	2	61	
Second Year	73	3	76	
First Year	71	6	77	
	261	12	273	273
				3,326

Summer Session of 1970

	<i>Men</i>	<i>Women</i>	<i>Totals</i>	
<i>First Term:</i>				
Graduate Students				
Regular	99	88	187	
Unclassified	17	40	57	
Undergraduates				
Regular	367	130	497	
Unclassified	116	133	249	
Law Students	14	1	15	
<i>Second Term:</i>				
Graduate Students				
Regular	51	55	106	
Unclassified	5	16	21	
Undergraduates				
Regular	308	98	406	
Unclassified	55	94	149	
	1,032	655	1,687	
Duplicates, attended both terms	273	153	426	
	759	502	1,261	
Duplicates, Summer School and Regular Session	424	150	574	
	335	352	687	687
				4,013

Registration by Departments

Accounting	316
Anthropology	329
Art	134
Asian Studies	163
Biology	951
Business	85
Business Administration	131
Chemistry	407
Classical Languages:	
Greek	54
Latin	238
Classics	18
Economics	444
Education	533
English	1,654
German	236
History	1,337
Honors	16
Mathematics	1,125
Military Science	155
Music	369
Philosophy	433
Physical Education	1,115
Physics	316
Political Science	506
Psychology	803
Religion	772
Romance Languages:	
French	530
Russian	12
Spanish	377
Social Science	58
Sociology	401
Speech	278

Geographical Distribution

Counties in North Carolina

Alamance	47	Lenoir	11
Alexander	8	Lincoln	7
Alleghany	2	McDowell	8
Anson	4	Macon	4
Ashe	7	Madison	3
Avery	3	Martin	6
Beaufort	5	Mecklenburg	122
Bladen	3	Mitchell	3
Brunswick	1	Montgomery	5
Buncombe	21	Moore	2
Burke	13	Nash	13
Cabarrus	29	New Hanover	23
Caldwell	20	Northampton	4
Carteret	8	Onslow	4
Caswell	2	Orange	7
Catawba	23	Pasquotank	6
Chatham	5	Pender	4
Chowan	2	Perquimans	3
Cleveland	45	Person	11
Columbus	8	Pitt	16
Craven	5	Randolph	17
Cumberland	28	Richmond	5
Davidson	59	Robeson	18
Davie	13	Rockingham	31
Duplin	7	Rowan	26
Durham	15	Rutherford	13
Edgecombe	8	Sampson	14
Forsyth	402	Scotland	8
Franklin	12	Stanley	13
Gaston	33	Stokes	14
Gates	3	Surry	33
Granville	7	Swain	2
Greene	2	Transylvania	4
Guilford	104	Union	15
Halifax	14	Vance	5
Harnett	14	Wake	64
Haywood	14	Warren	4
Henderson	11	Washington	1
Hertford	7	Watauga	6
Hoke	8	Wayne	11
Iredell	30	Wilkes	32
Jackson	1	Wilson	11
Johnston	15	Yadkin	12
Jones	4	Yancey	1
Lee	12		

Geographical Distribution

States

Alabama	6	Montana	2
Alaska	1	Missouri	6
Arkansas	3	New Hampshire	10
Arizona	3	New Jersey	179
California	18	New York	90
Colorado	3	North Dakota	3
Connecticut	34	Ohio	53
Delaware	34	Oklahoma	4
District of Columbia	10	Pennsylvania	165
Florida	110	Rhode Island	4
Georgia	69	South Carolina	90
Illinois	42	Tennessee	49
Indiana	12	Texas	3
Iowa	2	Utah	7
Kansas	2	Virginia	283
Kentucky	29	Washington	3
Louisiana	2	West Virginia	38
Maine	1	Wisconsin	3
Maryland	175	Canel Zone	2
Massachusetts	25	Puerto Rico	2
Michigan	9	APO Addresses	3
Minnesota	5	FPO Addresses	1

Foreign Countries

Australia	1	Iran	1
Bolivia	1	Nigeria	1
Canada	2	Peru	1
Columbia	2	Somalia	1
East Africa	1	Switzerland	2
Germany	2	Taiwan	1
Greece	1	Tasmania	1
Hong Kong	3	Thailand	3
Haiti	1		

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